Lenovo

# System x3500 M4
# Installation and Service Guide

**Machine Type:** 7383

**Note**

Before using this information and the product it supports, read the general information in Appendix D “Getting help and technical assistance” on page 1147, Appendix E “Notices” on page 1151, the *Warranty Information* document, and the *Safety Information* and *Environmental Notices and User Guide* documents on the IBM *Documentation* CD.

**Eleventh Edition (June 2016)**

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# Contents


**Safety . . . . . v**
Guidelines for trained service technicians . . . . . vi
Inspecting for unsafe conditions . . . . . vi
Guidelines for servicing electrical equipment . vii
Safety statements . . . . . viii

**Chapter 1. The Lenovo System x3500 M4 Type 7383 server . . . . . 1**
The Lenovo Documentation CD . . . . . 3
Hardware and software requirements . . . . . 3
The Documentation Browser . . . . . 3
Related documentation . . . . . 4
Notices and statements in this document . . . . . 5
Server features and specifications . . . . . 5
What your server offers . . . . . 11
Reliability, availability, and serviceability. . . . . 15
Systems Director. . . . . 16
Server controls, LEDs, and power . . . . . 17
Front view. . . . . 17
Operator information panel . . . . . 18
Light path diagnostics panel . . . . . 19
Rear view . . . . . 20
Server power features . . . . . 23

**Chapter 2. Installing optional devices . . . . . 25**
Instructions for Lenovo Business Partners . . . . 25
Sending DSA data to Lenovo . . . . . 26
Server components. . . . . 26
System-board internal connectors . . . . . 27
System-board external connectors . . . . . 29
System-board switches and jumpers . . . . 29
System-board LEDs and controls . . . . . 31
Hard disk drive backplane connectors . . . 33
Installation guidelines . . . . . 35
System reliability guidelines. . . . . 36
Working inside the server with the power on . 37
Handling static-sensitive devices . . . . . 37
Opening the bezel media door . . . . . 38
Removing the left-side cover . . . . . 40
Removing the air baffle . . . . . 41
Removing the fan cage assembly . . . . . 42
Installing a simple-swap fan . . . . . 44
Hard disk drive installation . . . . . 47
Installing a 2.5-inch hot-swap hard disk drive . . . . . 53
Installing a 3.5-inch hot-swap hard disk drive . . . . . 55
Installing a 3.5-inch simple-swap hard disk drive . . . . . 56
Installing a DVD drive . . . . . 57
Installing an optional tape drive . . . . . 59
Memory module installation . . . . . 60
DIMM installation sequence. . . . . 63
Memory mirrored channel . . . . . 64
Memory rank sparing . . . . . 65
Installing a DIMM . . . . . 66
Installing a PCI-X bracket . . . . . 68
Installing an adapter . . . . . 70
Installing an adapter on the PCI-X bracket . . 73
Installing an optional ServeRAID adapter memory module . . . . . 74
Installing a RAID adapter battery or flash power module remotely in the server. . . . . 75
Installing the microprocessor 2 expansion board . 77
Installing a microprocessor and heat sink . . . . 83
Thermal grease . . . . . 91
Installing a hot-swap power supply . . . . . 92
Installing a USB embedded hypervisor flash device . . . . . 95
Completing the installation . . . . . 96
Replacing the fan cage assembly . . . . . 97
Replacing the air baffle . . . . . 99
Replacing the left-side cover . . . . . 99
Connecting the cables. . . . . 100
Updating the server configuration . . . . . 102

**Chapter 3. Configuration information and instructions. . . . . 103**
Updating the firmware. . . . . 103
Configuring the server. . . . . 104
Using the ServerGuide Setup and Installation CD . . . . . 105
Using the Setup utility . . . . . 107
Using the Boot Manager . . . . . 113
Starting the backup server firmware . . . . 113
The Update*Xpress* System Pack Installer . . 113
Changing the Power Policy option to the default settings after loading UEFI defaults. . 113
Using the Integrated Management Module II (IMM2) . . . . . 114
Using the remote presence and blue-screen capture features . . . . . 115
Using the embedded hypervisor . . . . . 117


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Configuring the Ethernet controller . . . . . 118
Enabling Features on Demand Ethernet software . . . . . 118
Enabling Features on Demand RAID software . . . . . 118
Configuring RAID arrays . . . . . 118
Advanced Settings Utility program . . . . . 119
Using Lenovo XClarity Administrator . . . . 119
Updating Systems Director . . . . . 119
Updating the Universal Unique Identifier (UUID) . . . . . 120
Updating the DMI/SMBIOS data . . . . . 123

**Chapter 4. Troubleshooting . . . . . 127**
Start here. . . . . 127
Diagnosing a problem . . . . . 127
Undocumented problems . . . . . 129
Service bulletins . . . . . 130
Checkout procedure . . . . . 130
About the checkout procedure . . . . . 130
Performing the checkout procedure . . . . 131
Diagnostic tools . . . . . 131
Light path diagnostics . . . . . 133
Power-supply LEDs . . . . . 139
System pulse LEDs . . . . . 140
Event logs. . . . . 141
POST . . . . . 143
Lenovo Dynamic System Analysis . . . . . 144
Automated service request (call home) . . . . . 146
Lenovo Electronic Service Agent . . . . . 146
Error messages . . . . . 147
Troubleshooting by symptom . . . . . 147
CD/DVD drive problems . . . . . 147
General problems. . . . . 148
GPU/VGA adapter problems . . . . . 148
Hard disk drive problems. . . . . 149
Hypervisor problems . . . . . 149
Intermittent problems . . . . . 150
Keyboard, mouse, or USB-device problems . . . . . 150
Memory problems . . . . . 151
Microprocessor problems . . . . . 152
Monitor problems. . . . . 153
Network connection problems. . . . . 154
Optional-device problems . . . . . 155
Power problems . . . . . 155
RAID/storage adapter problems . . . . . 157
Serial port problems. . . . . 157
ServerGuide problems. . . . . 158
Software problems . . . . . 159
Universal Serial Bus (USB) port problems . . 160
Solving power problems . . . . . 160
Solving Ethernet controller problems . . . . . 160
Solving undetermined problems . . . . . 161
Problem determination tips . . . . . 162
Recovering the server firmware (UEFI update failure) . . . . . 163
In-band manual recovery method . . . . . 163
In-band automated boot recovery method . . 164
Out-of-band method . . . . . 164
Automated boot recovery (ABR) . . . . . 164
Nx-boot failure. . . . . 165

**Chapter 5. Parts listing, Lenovo System x3500 M4 Type 7383 . . . . 167**
Replaceable server components. . . . . 167
Structural parts. . . . . 176
Power cords . . . . . 177

**Chapter 6. Removing and replacing components. . . . . 181**
Returning a device or component . . . . . 181
Opening the bezel media door . . . . . 181
Closing the bezel media door . . . . . 183
Removing and replacing server components . . . 184
Removing and replacing structural parts. . . 184
Removing and replacing Tier 1 CRUs . . . . 193
Removing and replacing Tier 2 CRUs . . . . 278
Internal cable routing and connectors . . . . 312

**Appendix A. Integrated Management Module II (IMM2) error messages . 331**
List of IMM events . . . . . 332
IMM Events that automatically notify Support . . 955

**Appendix B. UEFI (POST) error codes . . . . . 965**
List of UEFI events . . . . . 965

**Appendix C. DSA diagnostic test results . . . . . 989**
DSA Broadcom network test results . . . . . 989
Test results for the DSA Broadcom network test . . . . . 989
DSA Brocade test results . . . . . 999
Test results for the DSA Brocade test . . . . 999
DSA checkpoint panel test results . . . . . 1008
Test results for the DSA checkpoint panel test . . . . . 1008
DSA CPU stress test results . . . . . 1010
Test results for the DSA CPU stress test . . 1010
DSA Emulex adapter test results. . . . . 1013

Test results for the DSA Emulex adapter test . . . . . 1013
DSA EXA port ping test results . . . . . 1017
Test results for the DSA EXA port ping test . . . . . 1017
DSA hard drive test results . . . . . 1020
Test results for the DSA hard drive test . . 1020
DSA Intel network test results . . . . . 1021
Test results for the DSA Intel network test . 1021
DSA LSI hard drive test results . . . . . 1028
Test results for the DSA LSI hard drive test . . . . . 1028
DSA Mellanox adapter test results . . . . . 1029
Test results for the DSA Mellanox adapter test . . . . . 1030
DSA memory isolation test results . . . . . 1032
Test results for the DSA memory isolation test . . . . . 1032
DSA memory stress test results . . . . . 1110
Test results for the DSA memory stress test . . . . . 1110
DSA Nvidia GPU test results . . . . . 1113
Test results for the DSA Nvidia GPU test. . 1114
DSA optical drive test results . . . . . 1120
Test results for the DSA optical drive test . 1120
DSA system management test results . . . . 1125
Test results for the DSA system management test . . . . . 1125
DSA tape drive test results . . . . . 1140
Test results for the DSA tape drive test . . 1140

**Appendix D. Getting help and technical assistance . . . . . 1147**

Before you call. . . . . 1147
Using the documentation . . . . . 1148
Getting help and information from the World Wide Web . . . . . 1148
How to send DSA data . . . . . 1148
Creating a personalized support web page . . 1148
Software service and support . . . . . 1149
Hardware service and support . . . . . 1149
Taiwan product service . . . . . 1149

**Appendix E. Notices . . . . . 1151**

Trademarks . . . . . 1152
Important notes . . . . . 1152
Recycling information . . . . . 1152
Particulate contamination . . . . . 1153
Telecommunication regulatory statement . . . 1153
Electronic emission notices. . . . . 1153
Federal Communications Commission (FCC) statement . . . . . 1153
Industry Canada Class A emission compliance statement . . . . . 1154
Avis de conformité à la réglementation d'Industrie Canada . . . . . 1154
Australia and New Zealand Class A statement . . . . . 1154
European Union EMC Directive conformance statement . . . . . 1154
Germany Class A statement . . . . . 1154
Japan VCCI Class A statement . . . . . 1155
Japanese statement for ac power consumption for JEITA harmonics guideline . . . . . 1156
Japanese statement of compliance for products less than or equal to 20A per phase for JEITA harmonics guideline . . . . . 1156
Korea Communications Commission (KCC) statement . . . . . 1156
Russia Electromagnetic Interference (EMI) Class A statement . . . . . 1156
People's Republic of China Class A electronic emission statement . . . . . 1156
Taiwan Class A compliance statement . . 1157
Taiwan BSMI RoHS declaration . . . . . 1158

**Index. . . . . 1159**

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# Safety

Before installing this product, read the Safety Information.

قبل تركيب هذا المنتج، يجب قراءة الملاحظات الآمنية

Antes de instalar este produto, leia as Informações de Segurança.

在安装本产品之前，请仔细阅读 Safety Information
(安全信息)。

安裝本產品之前，請先閱讀「安全資訊」。

Prije instalacije ovog produkta obavezno pročitajte Sigurnosne Upute.

Před instalací tohoto produktu si přečtěte příručku bezpečnostních instrukcí.

Læs sikkerhedsforskrifterne, før du installerer dette produkt.

Lees voordat u dit product installeert eerst de veiligheidsvoorschriften.

Ennen kuin asennat tämän tuotteen, lue turvaohjeet kohdasta Safety Information.

Avant d'installer ce produit, lisez les consignes de sécurité.

Vor der Installation dieses Produkts die Sicherheitshinweise lesen.

Πριν εγκαταστήσετε το προϊόν αυτό, διαβάστε τις πληροφορίες ασφάλειας
(safety information).

.לפני שתתקינו מוצר זה, קראו את הוראות הבטיחות

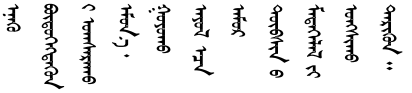
A termék telepítése előtt olvassa el a Biztonsági előírásokat!

Prima di installare questo prodotto, leggere le Informazioni sulla Sicurezza.

製品の設置の前に、安全情報をお読みください。

본 제품을 설치하기 전에 안전 정보를 읽으십시오.

Пред да се инсталира овој продукт, прочитајте информацијата за безбедност.



Les sikkerhetsinformasjonen (Safety Information) før du installerer dette produktet.

Przed zainstalowaniem tego produktu, należy zapoznać się
z książką "Informacje dotyczące bezpieczeństwa" (Safety Information).

Antes de instalar este produto, leia as Informações sobre Segurança.

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Перед установкой продукта прочтите инструкции по технике безопасности.

Pred inštaláciou tohto zariadenia si pečítaje Bezpečnostné predpisy.

Pred namestitvijo tega proizvoda preberite Varnostne informacije.

Antes de instalar este producto, lea la información de seguridad.

Läs säkerhetsinformationen innan du installerar den här produkten.

ཐོན་རྫས་འདི་བདེ་སྒྲིད་མ་བྱས་གོང་། ་སྐོར་གྱི་ཡིད་གཟབ་བྱ་འདུ་མིན་ཡོད་པའི་འོད་སྣེར་བལྟ་དགོས།

Bu ürünü kurmadan önce güvenlik bilgilerini okuyun.

مەزكۇر مەھسۇلاتنى ئورنىتىشتىن بۇرۇن بىخەتەرلىك ئۇچۇرلىرىنى ئوقۇپ چىقىڭ.

Youq mwngz yungh canjbinj neix gaxgonq, itdingh aeu doeg aen canjbinj soengq cungj vahgangj ancien siusik.

## Guidelines for trained service technicians

This section contains information for trained service technicians.

## Inspecting for unsafe conditions

Use this information to help you identify potential unsafe conditions in a device that you are working on.

Each device, as it was designed and manufactured, has required safety items to protect users and service technicians from injury. The information in this section addresses only those items. Use good judgment to identify potential unsafe conditions that might be caused by unsupported alterations or attachment of unsupported features or optional devices that are not addressed in this section. If you identify an unsafe condition, you must determine how serious the hazard is and whether you must correct the problem before you work on the product.

Consider the following conditions and the safety hazards that they present:

- Electrical hazards, especially primary power. Primary voltage on the frame can cause serious or fatal electrical shock.
- Explosive hazards, such as a damaged CRT face or a bulging capacitor.
- Mechanical hazards, such as loose or missing hardware.

To inspect the product for potential unsafe conditions, complete the following steps:

1. Make sure that the power is off and the power cords are disconnected.
2. Make sure that the exterior cover is not damaged, loose, or broken, and observe any sharp edges.
3. Check the power cords:
   - Make sure that the third-wire ground connector is in good condition. Use a meter to measure third-wire ground continuity for 0.1 ohm or less between the external ground pin and the frame ground.
   - Make sure that the power cords are the correct type.
   - Make sure that the insulation is not frayed or worn.
4. Remove the cover.

5. Check for any obvious unsupported alterations. Use good judgment as to the safety of any unsupported alterations.
6. Check inside the system for any obvious unsafe conditions, such as metal filings, contamination, water or other liquid, or signs of fire or smoke damage.
7. Check for worn, frayed, or pinched cables.
8. Make sure that the power-supply cover fasteners (screws or rivets) have not been removed or tampered with.

## Guidelines for servicing electrical equipment

Observe these guidelines when you service electrical equipment.

- Check the area for electrical hazards such as moist floors, nongrounded power extension cords, and missing safety grounds.
- Use only approved tools and test equipment. Some hand tools have handles that are covered with a soft material that does not provide insulation from live electrical current.
- Regularly inspect and maintain your electrical hand tools for safe operational condition. Do not use worn or broken tools or testers.
- Do not touch the reflective surface of a dental mirror to a live electrical circuit. The surface is conductive and can cause personal injury or equipment damage if it touches a live electrical circuit.
- Some rubber floor mats contain small conductive fibers to decrease electrostatic discharge. Do not use this type of mat to protect yourself from electrical shock.
- Do not work alone under hazardous conditions or near equipment that has hazardous voltages.
- Locate the emergency power-off (EPO) switch, disconnecting switch, or electrical outlet so that you can turn off the power quickly in the event of an electrical accident.
- Disconnect all power before you perform a mechanical inspection, work near power supplies, or remove or install main units.
- Before you work on the equipment, disconnect the power cord. If you cannot disconnect the power cord, have the customer power-off the wall box that supplies power to the equipment and lock the wall box in the off position.
- Never assume that power has been disconnected from a circuit. Check it to make sure that it has been disconnected.
- If you have to work on equipment that has exposed electrical circuits, observe the following precautions:
  - Make sure that another person who is familiar with the power-off controls is near you and is available to turn off the power if necessary.
  - When you work with powered-on electrical equipment, use only one hand. Keep the other hand in your pocket or behind your back to avoid creating a complete circuit that could cause an electrical shock.
  - When you use a tester, set the controls correctly and use the approved probe leads and accessories for that tester.
  - Stand on a suitable rubber mat to insulate you from grounds such as metal floor strips and equipment frames.
- Use extreme care when you measure high voltages.
- To ensure proper grounding of components such as power supplies, pumps, blowers, fans, and motor generators, do not service these components outside of their normal operating locations.
- If an electrical accident occurs, use caution, turn off the power, and send another person to get medical aid.

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## Safety statements

These statements provide the caution and danger information that is used in this documentation.

**Important:** Each caution and danger statement in this documentation is labeled with a number. This number is used to cross reference an English-language caution or danger statement with translated versions of the caution or danger statement in the *Safety Information* document.

For example, if a caution statement is labeled `Statement 1`, translations for that caution statement are in the *Safety Information* document under `Statement 1`.

Be sure to read all caution and danger statements in this documentation before you perform the procedures. Read any additional safety information that comes with your system or optional device before you install the device.

**Statement 1**

**DANGER**

**Electrical current from power, telephone, and communication cables is hazardous.**

**To avoid a shock hazard:**

- **Do not connect or disconnect any cables or perform installation, maintenance, or reconfiguration of this product during an electrical storm.**
- **Connect all power cords to a properly wired and grounded electrical outlet.**
- **Connect to properly wired outlets any equipment that will be attached to this product.**
- **When possible, use one hand only to connect or disconnect signal cables.**
- **Never turn on any equipment when there is evidence of fire, water, or structural damage.**
- **Disconnect the attached power cords, telecommunications systems, networks, and modems before you open the device covers, unless instructed otherwise in the installation and configuration procedures.**
- **Connect and disconnect cables as described in the following table when installing, moving, or opening covers on this product or attached devices.**

| **To Connect:** | **To Disconnect:** |
|---|---|
| 1. Turn everything OFF. | 1. Turn everything OFF. |
| 2. First, attach all cables to devices. | 2. First, remove power cords from outlet. |
| 3. Attach signal cables to connectors. | 3. Remove signal cables from connectors. |
| 4. Attach power cords to outlet. | 4. Remove all cables from devices. |
| 5. Turn device ON. | |

**Statement 2**

**CAUTION:**
**When replacing the lithium battery, use only Part Number 33F8354 or an equivalent type battery recommended by the manufacturer. If your system has a module containing a lithium battery, replace it only with the same module type made by the same manufacturer. The battery contains lithium and can explode if not properly used, handled, or disposed of.**

*Do not:*

- **Throw or immerse into water**
- **Heat to more than 100°C (212°F)**
- **Repair or disassemble**

**Dispose of the battery as required by local ordinances or regulations.**

**Statement 3**

**CAUTION:**
**When laser products (such as CD-ROMs, DVD drives, fiber optic devices, or transmitters) are installed, note the following:**

- **Do not remove the covers. Removing the covers of the laser product could result in exposure to hazardous laser radiation. There are no serviceable parts inside the device.**
- **Use of controls or adjustments or performance of procedures other than those specified herein might result in hazardous radiation exposure.**

**DANGER**

**Some laser products contain an embedded Class 3A or Class 3B laser diode. Note the following.**

**Laser radiation when open. Do not stare into the beam, do not view directly with optical instruments, and avoid direct exposure to the beam.**

Class 1 Laser Product
Laser Klasse 1
Laser Klass 1
Luokan 1 Laserlaite
Appareil À Laser de Classe 1

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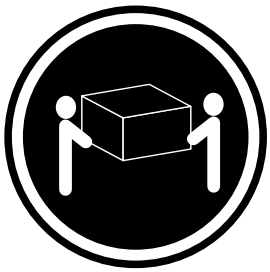
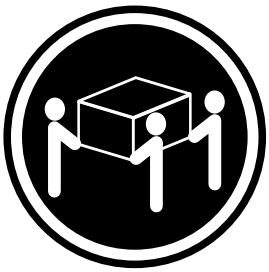
**Statement 4**

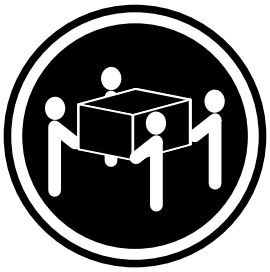
**CAUTION: Use safe practices when lifting.**



≥ 18 kg (39.7 lb)



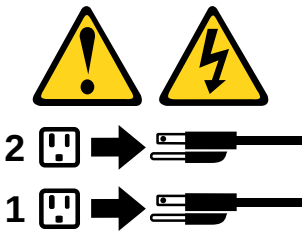
≥ 32 kg (70.5 lb)



≥ 55 kg (121.2 lb)

**Statement 5**

**CAUTION:**
**The power control button on the device and the power switch on the power supply do not turn off the electrical current supplied to the device. The device also might have more than one power cord. To remove all electrical current from the device, ensure that all power cords are disconnected from the power source.**




**Statement 6**

**CAUTION:**
**If you install a strain-relief bracket option over the end of the power cord that is connected to the device, you must connect the other end of the power cord to an easily accessible power source.**

**Statement 8**

**CAUTION:**
**Never remove the cover on a power supply or any part that has the following label attached.**

**Hazardous voltage, current, and energy levels are present inside any component that has this label attached. There are no serviceable parts inside these components. If you suspect a problem with one of these parts, contact a service technician.**

**Statement 11**

**CAUTION:**
**The following label indicates sharp edges, corners, or joints nearby.**

**Statement 12**

**CAUTION:**
**The following label indicates a hot surface nearby.**

**Statement 13**

**DANGER**

**Overloading a branch circuit is potentially a fire hazard and a shock hazard under certain conditions. To avoid these hazards, ensure that your system electrical requirements do not exceed branch circuit protection requirements. Refer to the information that is provided with your device for electrical specifications.**

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**Statement 15**

**CAUTION:**
**Make sure that the rack is secured properly to avoid tipping when the server unit is extended.**

**Statement 17**

**CAUTION:**
**The following label indicates moving parts nearby.**

**Statement 26**

**CAUTION:**
**Do not place any object on top of rack-mounted devices.**

**Statement 27**

**CAUTION:**
**Hazardous moving parts are nearby.**

# Chapter 1. The Lenovo System x3500 M4 Type 7383 server

This *Installation and Service Guide* contains information and instructions for setting up your Lenovo System x3500 M4 Type 7383 server, instructions for installing some optional devices, cabling and configuring the server, removing and replacing devices, and diagnostics and troubleshooting information.

In addition to the instructions in Chapter 2 “Installing optional devices” on page 25 for installing optional hardware devices, updating firmware and device drivers, and completing the installation, Business Partners must also complete the steps in “Instructions for Lenovo Business Partners” on page 25.

The Lenovo System x3500 M4 Type 7383 server is a 5U[1] high performance server. It can be upgraded to a symmetric multiprocessing (SMP) server through a microprocessor upgrade. It is ideally suited for networking environments that require superior microprocessor performance, efficient memory management, flexibility, and large amounts of reliable data storage.

Performance, ease of use, reliability, and expansion capabilities were key considerations in the design of the server. These design features make it possible for you to customize the system hardware to meet your needs today and provide flexible expansion capabilities for the future.

The server comes with a limited warranty. For information about the terms of the warranty and getting service and assistance, see the *Warranty Information* document that comes with the server.

The server contains next generation technologies, which help increase performance and reliability. For more information, see “What your server offers” on page 11 and “Reliability, availability, and serviceability” on page 15.

You can obtain up-to-date information about the server and other server products at http://shop.lenovo.com/us/ en/systems/. At http://www.lenovo.com/support, you can create a personalized support page by identifying Lenovo products that are of interest to you. From this personalized page, you can subscribe to weekly email notifications about new technical documents, search for information and downloads, and access various administrative services.

If you participate in the Lenovo client reference program, you can share information about your use of technology, best practices, and innovative solutions; build a professional network; and gain visibility for your business. For more information about the Lenovo client reference program, see http://www.ibm.com/ibm/clientreference/.

If firmware and documentation updates are available, you can download them from the Lenovo website. The server might have features that are not described in the documentation that comes with the server, and the documentation might be updated occasionally to include information about those features, or technical updates might be available to provide additional information that is not included in the server documentation. To check for updates, go to http://www.lenovo.com/support.

**Note:** The illustrations in this document might differ slightly from your model.

Record information about the server in the following table.

1. Racks are measured in vertical increments of 4.45 cm (1.75 inches) each. Each increment is called a "U." A 1-U-high device is 1.75 inches tall

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*Table 1. Record of the system information*

| Product name | Machine Type (s) | Model number | Serial number |
|---|---|---|---|
| Lenovo System x3500 M4 Type 7383 server | Type 7383 | | |

The model number and serial number are on the ID label on the front of the server, as shown in the following illustration.

**Note:** The illustrations in this document might differ slightly from your hardware.

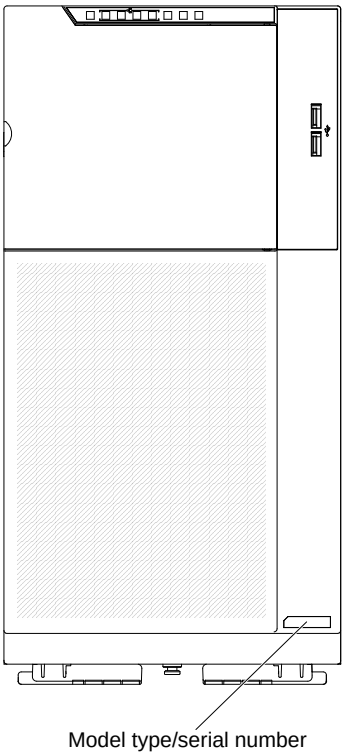



*Figure 1. ID label on the front of the server*

In addition, the system service label, which is on the cover of the server, provides a QR code for mobile access to service information. You can scan the QR code using a QR code reader and scanner with a mobile device and get quick access to the Lenovo Service Information website. The Lenovo Service Information website provides additional information for parts installation and replacement videos, and error codes for server support.

The following illustration shows the QR code (ibm.co/18TTU7U):

*Figure 2. QR code*

You can download the Lenovo *ServerGuide Setup and Installation* CD to help you configure the hardware, install device drivers, and install the operating system.

For a list of supported optional devices for the server, see http://www.lenovo.com/ serverproven/.

See the *Rack Installation Instructions* document on the Lenovo *System x Documentation* CD for complete rack installation and removal instructions.

## The Lenovo Documentation CD

The Lenovo *Documentation* CD contains documentation for the server in Portable Document Format (PDF) and includes the Lenovo Documentation Browser to help you find information quickly.

## Hardware and software requirements

The hardware and software requirements of the Lenovo *Documentation* CD.

The Lenovo *Documentation* CD requires the following minimum hardware and software:

- Microsoft Windows or Red Hat Linux
- 100 MHz microprocessor
- 32 MB of RAM
- Adobe Acrobat Reader 3.0 (or later) or xpdf, which comes with Linux operating systems

## The Documentation Browser

Use the Documentation Browser to browse the contents of the CD, read brief descriptions of the documents, and view documents, using Adobe Acrobat Reader or xpdf.

The Documentation Browser automatically detects the regional settings in use in your server and displays the documents in the language for that region (if available). If a document is not available in the language for that region, the English-language version is displayed. Use one of the following procedures to start the Documentation Browser:

- If Autostart is enabled, insert the CD into the CD or DVD drive. The Documentation Browser starts automatically.
- If Autostart is disabled or is not enabled for all users, use one of the following procedures:
  - If you are using a Windows operating system, insert the CD into the CD or DVD drive and click **Start → Run**. In the Open field, type:
    *e*:\win32.bat
    where *e* is the drive letter of the CD or DVD drive, and click **OK**.
  - If you are using Red Hat Linux, insert the CD into the CD or DVD drive; then, run the following command from the /mnt/cdrom directory:
    sh runlinux.sh

Select the server from the **Product** menu. The **Available Topics** list displays all the documents for the server. Some documents might be in folders. A plus sign (+) indicates each folder or document that has additional documents under it. Click the plus sign to display the additional documents.

When you select a document, a description of the document is displayed under **Topic Description**. To select more than one document, press and hold the Ctrl key while you select the documents. Click **View Book** to view the selected document or documents in Acrobat Reader or xpdf. If you selected more than one document, all the selected documents are opened in Acrobat Reader or xpdf.

To search all the documents, type a word or word string in the **Search** field and click **Search**. The documents in which the word or word string appears are listed in order of the most occurrences. Click a document to view it, and press Crtl+F to use the Acrobat search function, or press Alt+F to use the xpdf search function within the document.

Click **Help** for detailed information about using the Documentation Browser.

## Related documentation

This *Installation and Service Guide* contains general information about the server including how to set up and cable the server, how to install supported optional devices, how to configure the server, and information to help you solve problems yourself and information for service technicians.

The following documentation also comes with the server:

- *Environmental Notices and User Guide*

  This document is in PDF format on the Lenovo*Documentation* CD. It contains translated environmental notices.
- *Lenovo License Agreement for Machine Code*

  This document is in PDF format on the Lenovo*Documentation* CD. It provides translated versions of the *Lenovo License Agreement for Machine Code* for your product.
- *Important Notices*

  This document is in printed format and comes with the server. It contains information about the safety, environmental, and electronic emission notices for your Lenovo product.
- *Licenses and Attributions Documents*

  This document is in PDF format on the Lenovo*Documentation* CD. It provides the open source notices.
- *Rack Safety Information*

  This multilingual document provides translated versions of the caution and danger statements that appear in the rack documentation. Each caution and danger statement has an assigned number, which you can use to locate the corresponding statement in your native language.
- *Safety Information*

  This document is in PDF format on the Lenovo *Documentation* CD. It contains translated caution and danger statements. Each caution and danger statement that appears in the documentation has a number that you can use to locate the corresponding statement in your language in the *Safety Information* document.
- *Safety Information Labels*

  This document provides the Simplified Chinese, Mongolian, Tibetan, Uygur, and Zhuang translated versions of the product safety labels.
- *Warranty Information*

  This document is in printed format and comes with the server. It contains warranty terms and a pointer to the Lenovo Statement of Limited Warranty on the Lenovo website.

Depending on the server model, additional documentation might be included on the Lenovo*Documentation* CD.

The ToolsCenter for System x and BladeCenter is an online information center that contains information about tools for updating, managing, and deploying firmware, device drivers, and operating systems. The ToolsCenter for System x and BladeCenter is at https://support.lenovo.com/us/en/documents/LNVO-CENTER.

The server might have features that are not described in the documentation that you received with the server. The documentation might be updated occasionally to include information about those features, or technical updates might be available to provide additional information that is not included in the server documentation. These updates are available from the Lenovo website. To check for updates, go to http://www.lenovo.com/support.

## Notices and statements in this document

The caution and danger statements in this document are also in the multilingual *Safety Information* document, which is on the Lenovo*Documentation* CD. Each statement is numbered for reference to the corresponding statement in your language in the *Safety Information* document.

The following notices and statements are used in this document:

- **Note:** These notices provide important tips, guidance, or advice.
- **Important:** These notices provide information or advice that might help you avoid inconvenient or problem situations.
- **Attention:** These notices indicate potential damage to programs, devices, or data. An attention notice is placed just before the instruction or situation in which damage might occur.
- **Caution:** These statements indicate situations that can be potentially hazardous to you. A caution statement is placed just before the description of a potentially hazardous procedure step or situation.
- **Danger:** These statements indicate situations that can be potentially lethal or extremely hazardous to you. A danger statement is placed just before the description of a potentially lethal or extremely hazardous procedure step or situation.

## Server features and specifications

Use this information for an overview of the server features and specifications.

The following information is a summary of the features and specifications of the server. Depending on the model, some features might not be available, or some specifications might not apply.

**Microprocessor (depending on the model):**

- Support up to two Intel Xeon E5-2600 series multi-core microprocessors with integrated memory controller and Quick Path Interconnect (QPI) architecture
- Up to 2.5M Level-3 cache/core
- Two QuickPath Interconnect (QPI) links speed up to 8.0 GT per second

**Notes:**

1. Use the Setup utility to determine the type and speed of the microprocessors in the server
2. For a list of supported microprocessors, see http://www.lenovo.com/ serverproven/.

**Memory:**

- Slot: 12 DIMM connectors (24 DIMM connectors when the microprocessor 2 expansion board is installed)
- Minimum: 2 GB
- Maximum: 768 GB
  - 32 GB using unbuffered DIMMs (UDIMMs)
  - 384 GB using registered DIMMs (RDIMMs)
  - 768 GB using load reduction DIMMs (LRDIMMs)
- Type:
  - PC3-8500 (DDR3-1066), PC3-10600 (DDR3-1333), PC3-12800 (DDR3-1600), or PC3-14900 (DDR3-1866)
  - Single-rank, dual-rank, or quad-rank
  - Registered DIMM (RDIMM), unbuffered DIMM (UDIMM), or load reduced DIMM (LRDIMM)
- Supports (depending on the model):
  - 2 GB unbuffered DIMM (UDIMM)
  - 2 GB, 4 GB, 8 GB, and 16 GB registered DIMMs (RDIMMs)
  - 32 GB load reduction DIMM (LRDIMM)

**Drives:**

- SATA:
  - DVD-ROM
  - Multi-burner

  **Note:** Maximum of two devices can be installed.
- Diskette: External USB hard disk drive
- Supported hard disk drives:
  - Serial Attached SCSI (SAS)
  - Serial ATA (SATA)

**Expansion bays (depending on the model):**

- Up to thirty-two 2.5-inch HDD bays
- Up to eight 3.5-inch HDD bays
- Up to two half-high 5.25-inch bays

  **Note:** Full-high devices such as an optional tape drive will occupy two half-high 5.25-inch bays.

**Attention:** As a general consideration, do not mix standard 512-byte and advanced 4-KB format drives in the same RAID array because it might lead to potential performance issues.

**PCI and PCI-X expansion slots:**

- Six PCI expansion slots on the system board:
  - Slot 1: PCI Express 2.0 x8 (support optional PCI-X interposer card)
  - Slot 2: PCI Express 3.0 x8
  - Slot 3: PCI Express 3.0 x8
  - Slot 4: PCI Express 3.0 x8
  - Slot 5: PCI Express 3.0 x16 (support 225W GPU)
  - Slot 6: PCI Express 3.0 x8
- Two PCI expansion slots on the microprocessor 2 expansion board:
  - Slot 7: PCI Express 3.0 x16 (support 225W GPU)
  - Slot 8: PCI Express 3.0 x16
- PCI-X interposer card (optional):
  - One PCI-X 64-bit/133 MHz

**Power supply (depending on the model):**

- Up to two hot-swap power supplies for redundancy support.
  - 550-watt ac
    1. Support up to 95-watt processor.
    2. Support up to eight HDDs.
    3. GPU not supported.
    4. Support up to sixteen 1R/2R RDIMMs or UDIMMs. 4R RDIMMs and LRDIMMs are not supported.
- Up to two hot-swap power supplies for redundancy support.
  - 750-watt ac
    1. Support up to sixteen HDDs.
    2. GPU not supported.
    3. Support up to sixteen LRDIMMs, UDIMMs, or twenty-four RDIMMs.
  - 900-watt ac
    1. No GPU installed:
       a. Hard disk drive:
          - Support up to thirty-two HDDs, or,
          - Support up to sixteen HDDs if more than sixteen LRDIMMs are installed.
       b. Memory:
          - Support up to sixteen UDIMMs, or,
          - Support up to twenty-four RDIMMs/LRDIMMs, or,
          - Support up to sixteen LRDIMMs if more than sixteen HDDs are installed.
    2. One GPU installed:
       a. Hard disk drive:
          - Support up to eight HDDs.

b. Memory:
   - Support up to sixteen LRDIMMs/UDIMMs, or,
   - Support up to twenty-four RDIMMs.

- Two 900-watt ac are required and used in non-redundant mode in the following scenarios:
  1. Two GPUs are installed.
  2. One GPU is installed and more than eight HDDs are installed.
  3. One GPU is installed and more than sixteen LRDIMMs are installed.
  4. More than sixteen HDDs are installed and more than sixteen LRDIMMs are installed.

**Note:** Power supplies in the server must be with the same power rating or wattage.

**Simple-swap fans:**

- Two (one microprocessor installed)
- Three (two microprocessors installed)
- Three additional fans (for optional redundant cooling)

**RAID controllers (depending on the model):**

- A ServeRAID M1115 SAS/SATA adapter that provides RAID 0, 1, and 10 with optional FoD RAID 5/50 and SED (Self Encrypting Drive) upgrade.
- A ServeRAID M5110 SAS/SATA adapter that provides RAID 0, 1, and 10. Optional upgrade:
  - RAID 5/50 (512 MB Cache) with optional FoD RAID 6/60 and SED upgrade
  - RAID 5/50 (512 MB Flash) with optional FoD RAID 6/60 and SED upgrade
  - RAID 5/50 (1 GB Flash) with optional FoD RAID 6/60 and SED upgrade
  - RAID 5/50 and SED (Zero Cache)

**Integrated functions:**

- Integrated Management Module II (IMM2), which consolidates multiple management functions in a single chip.
- Intel I350AM4 Quad Port Gigabit Ethernet controller with Wake on LAN support
- Serial over LAN (SOL) and serial redirection over Telnet or Secure Shell (SSH)
- One systems-management 1 Gb Ethernet port for connection to a dedicated systems-management network. This system management connector is dedicated to the IMM2 functions.
- Light path diagnostics
- Six Universal Serial Bus (USB) ports
  - Two on front of server
  - Four on rear of server
- One internal USB port for optional USB flash device with embedded hypervisor
- One internal USB tape connector
- One serial connector

**Video controller (integrated into IMM2):**

- Matrox G200eR2

  **Note:** The maximum video resolution is 1600 x 1200 at 75 Hz.

  - SVGA compatible video controller

  - DDR3 528 MHz SDRAM video memory controller
  - Avocent Digital Video Compression
  - 16 MB of video memory (not expandable)

**Size:**

- Tower
  - Height: 440 mm (17.3 in.)
  - Depth: 750 mm (29.5 in.)
  - Width: 218 mm (8.6 in.)
  - Weight: approximately 39.8 kg (87.7 lb) when fully configured or 25.0 kg (55.1 lb) minimum
- Rack
  - 5 U
  - Height: 218 mm (8.6 in.)
  - Depth: 702 mm (27.6 in.)
  - Width: 424 mm (16.7 in.)
  - Weight: approximately 39.3 kg (86.6 lb) when fully configured or 24.5 kg (54.0 lb) minimum

**Acoustical noise emissions:**

- Sound power, idling: 6.0 bels
- Sound power, operating: 6.0 bels

**Environment:**

- Air temperature:
  - Server on: 10°C to 35°C (50.0°F to 95.0°F); altitude: 0 to 915 m (3000 ft)
  - Server on: 10°C to 32°C (50.0°F to 90.0°F); altitude: 915 m (3000 ft) to 2134 m (7000 ft)
  - Server on: 10°C to 28°C (50.0°F to 83.0°F); altitude: 2134 m (7000 ft) to 3050 m (10000 ft)
  - Server off (with standby power): 5°C to 45°C (41°F to 113°F)
  - Shipment: -40°C to 60°C (-40°F to 140°F)
- Humidity:
  - Server on: 20% to 80%; maximum dew point 21°C; maximum rate of change: 5°C/hour
  - Server off (with standby power): 8% to 80%; maximum dew point: 27°C
- Particulate contamination:

  **Attention:** Airborne particulates and reactive gases acting alone or in combination with other environmental factors such as humidity or temperature might pose a risk to the server. For information about the limits for particulates and gases, see “Particulate contamination” on page 1153.

**Heat output:**

Approximate heat output:

- Minimum configuration: 2013 Btu per hour (590 watts)
- Maximum configuration: 3610 Btu per hour (1058 watts)

**Electrical input:**

- Sine-wave input (50-60 Hz) required
- Input voltage low range:

  - Minimum: 100 V AC
  - Maximum: 127 V AC
- Input voltage high range:
  - Minimum: 200 V AC
  - Maximum: 240 V AC
- Input kilovolt-amperes (kVA), approximately:
  - Minimum: 0.60 kVA
  - Maximum: 1.10 kVA

**Notes:**

- Power consumption and heat output vary depending on the number and type of optional features installed and the power-management optional features in use.
- The noise emission level stated is the declared (upper limit) sound power level, in bels, for a random sample of machines. All measurements are made in accordance with ISO 7779 and reported in conformance with ISO 9296.

**EU Regulation 617/2013 Technical Documentation:**

International Business Machines Corporation
New Orchard Road
Armonk, New York 10504
http://www.ibm.com/customersupport/

For more information on the energy efficiency program, go to http://www.ibm.com/systems/x/hardware/energy-star/index.html.

**Product Type:**
Computer server

**Year first manufactured:**
2012

**Internal/external power supply efficiency:**

- http://www.plugloadsolutions.com/psu_reports/IBM_FSA011_550W_SO-301_Report.pdf
- http://www.plugloadsolutions.com/psu_reports/IBM_7001676-XXXX_550W_SO-458_Report.pdf
- http://www.plugloadsolutions.com/psu_reports/IBM_7001605-XXXX_750W_SO-258_Report.pdf
- http://www.plugloadsolutions.com/psu_reports/SO-299_IBM_DPS-750AB-1_750W_Report.pdf
- http://www.plugloadsolutions.com/psu_reports/IBM_DPS-750AB-14%20A_750W_SO-527_Report.pdf
- http://www.plugloadsolutions.com/psu_reports/IBM_7001606-XXXX_900W_SO-273_Report.pdf
- http://www.plugloadsolutions.com/psu_reports/IBM_DPS-900CB%20A_900W_SO-440_Report.pdf

**Maximum power (watts):**
See Power supply.

**Idle state power (watts):**
97

**Sleep mode power (watts):**
Not applicable for servers

**Off mode power (watts):**
19

**Noise levels (the declared A-weighed sound power level of the server)**
See Acoustical noise emissions.

**Test voltage and frequency:**
230V / 50 Hz or 60 Hz

**Total harmonic distortion of the electricity supply system:**
The maximum harmonic content of the input voltage waveform will be equal or less than 2%. The qualification is compliant with EN 61000-3-2.

**Information and documentation on the instrumentation setup and circuits used for electrical testing:**
ENERGY STAR Test Method for Computer Servers; ECOVA Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies

**Measurement methodology used to determine information in this document:**
ENERGY STAR Servers Program Requirements; ECOVA Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies

## What your server offers

The server uses the following features and technologies.

- **Active Energy Manager**

  The IBM Active Energy Manager solution is an IBM Systems Director extension that measures and reports server power consumption as it occurs. This enables you to monitor power consumption in correlation to specific software application programs and hardware configurations. You can obtain the measurement values through the systems-management interface and view them, using IBM Systems Director. For more information, including the required levels of IBM Systems Director and Active Energy Manager, see the IBM Systems Director Information Center at http://pic.dhe.ibm.com/infocenter/director/pubs/index.jsp, or see http://www.ibm.com/systems/software/director/resources.html.

- **Dynamic System Analysis (DSA)**

  The server comes with the Lenovo Dynamic System Analysis (DSA) Preboot diagnostic program stored in the integrated USB memory on the server. DSA collects and analyzes system information to aid in diagnosing server problems, as well as offering a rich set of diagnostic tests of the major components of the server. DSA creates a DSA log, which is a chronologically ordered merge of the system-event log (as the IPMI event log), the Integrated Management Module II (IMM2) event log (as the ASM event log), and the operating-system event logs. You can send the DSA log as a file to Lenovo Support or view the information as a text file or HTML file.

  Two editions of Dynamic System Analysis are available: DSA Portable and DSA Preboot. For more information about both editions, see “DSA editions” on page 144.

- **Features on Demand software Ethernet support**

  The server provides Features on Demand software Ethernet support. You can purchase a Features on Demand software upgrade activation key for Fiber Channel over Ethernet and iSCSI storage protocols that is provided through the integrated Ethernet controller. For more information, see “Enabling Features on Demand RAID software” on page 118.

- **Features on Demand software RAID support**

  The server provides Features on Demand software RAID support for RAID levels 5, 6, 50, and 60 upgrade. Features on Demand software RAID upgrade is integrated into the Integrated Management Module II (IMM2). For more information, see “Enabling Features on Demand RAID software” on page 118.

- **Lenovo*ServerGuide Setup and Installation* CD**

  The *ServerGuide Setup and Installation* CD, which you can download from the web, provides programs to help you set up the server and install a Windows operating system. The ServerGuide program detects installed optional hardware devices and provides the correct configuration programs and device drivers. For more information about the *ServerGuide Setup and Installation* CD, see “Using the ServerGuide Setup and Installation CD” on page 105.

- **IBM Systems Director**

  IBM Systems Director is a platform-management foundation that streamlines the way you manage physical and virtual systems in a heterogeneous environment. By using industry standards, IBM Systems Director supports multiple operating systems and virtualization technologies for Lenovo and non-Lenovo x86 platforms. For more information, see the Lenovo Systems Director Information Center at http://www.ibm.com/systems/software/director/resources.html and “Systems Director” on page 16.

- **Lenovo XClarity Administrator**

  Lenovo XClarity Administrator is a centralized, resource-management solution that simplifies infrastructure management, speeds responses, and enhances the availability of Lenovo server systems and solutions. It runs as a virtual appliance that automates discovery, inventory, tracking, and monitoring for Lenovo servers in a secure environment. For more information, see “Using Lenovo XClarity Administrator ” on page 119.

- **Integrated Management Module II (IMM2)**

  The Integrated Management Module II (IMM2) combines service processor functions, video controller, and remote presence and blue-screen capture features in a single chip. The IMM2 provides advanced service-processor control, monitoring, and alerting function. If an environmental condition exceeds a threshold or if a system component fails, the IMM2 lights LEDs to help you diagnose the problem, records the error in the IMM2 event log, and alerts you to the problem. Optionally, the IMM2 also provides a virtual presence capability for remote server management capabilities. The IMM2 provides remote server management through the following industry-standard interfaces:

  – Intelligent Platform Management Interface (IPMI) version 2.0

  – Simple Network Management Protocol (SNMP) version 3.0

  – Common Information Model (CIM)

  – Web browser

  For additional information, see “Using the Integrated Management Module II (IMM2)” on page 114 and the *Integrated Management Module II User's Guide* at the http://www.lenovo.com/support.

- **Integrated network support**

  The server comes with an integrated dual-port Intel Gigabit Ethernet controller, which supports connection to a 10 Mbps, 100 Mbps, or 1000 Mbps network. For more information, see “Configuring the Ethernet controller” on page 118.

- **Integrated Trusted Platform Module (TPM)**

  This integrated security chip performs cryptographic functions and stores private and public secure keys. It provides the hardware support for the Trusted Computing Group (TCG) specification. You can download the software to support the TCG specification, when the software is available. See http://www.ibm.com/systems/x/hardware/enterprise/index.html for details about the TPM implementation. You can enable TPM support through the Setup utility under the **System Security** menu choice (see “Using the Setup utility” on page 107).

- **Large data-storage capacity and hot-swap capability**

  The server can support a maximum of sixteen 2.5-inch drives, thirty-two 32 1.8-inch drives, or a combination of both 2.5-inch and 1.8-inch drives when you use the supported SAS/SATA backplane configurations. The server supports 2.5-inch hot-swap Serial Attached SCSI (SAS) hard disk drives or

hot-swap Serial ATA (SATA) hard disk drives, 2.5-inch hot-swap solid state drives (SSD), or 1.8-inch hot-swap solid state drives.

With the hot-swap feature, you can add, remove, or replace hard disk drives without turning off the server.

- **Large system-memory capacity**

  The memory bus supports up to 384 GB of system memory when registered DIMMs are installed. The server supports up to 64 GB if unbuffered DIMMs are installed. The memory controller supports error correcting code (ECC) for up to 24 industry-standard PC3-8500 (DDR3-1066), PC3-10600 (DDR3-1333), or PC3-12800 (DDR3-1600), DDR3 (third-generation double-data-rate), synchronous dynamic random access memory (SDRAM) dual inline memory modules (DIMMs).

- **Light path diagnostics**

  Light path diagnostics provides LEDs to help you diagnose problems. For more information about light path diagnostics and the LEDs, see “Light path diagnostics LEDs” on page 135.

- **Memory mirroring**

  Memory mirroring provides a redundant copy of all code and data that are addressable in the configured memory map. Through the microprocessor memory controller chip set, memory mirroring replicates and stores data across DIMMs on two or four memory channels simultaneously. If a failure occurs, the memory controller switches from the DIMMs on the primary channel to the DIMMs on the backup channel. To enable memory mirroring through the Setup utility, select **System Settings → Memory → Memory Mode → Mirroring**. For information about installing DIMMs for memory mirroring, see “Memory module installation” on page 60 for more information.

- **Memory sparing**

  The server supports memory sparing. Memory sparing reserves memory capacity for failover in the event of a DIMM failure, and the reserved capacity is subtracted from the total available memory. Memory sparing provides less redundancy than memory mirroring does. If a predetermined threshold of correctable errors is reached, the contents of the failing DIMM are copied to the spare memory, and the failing DIMM or rank is disabled. To enable memory sparing through the Setup utility, select **System Settings ® Memory ® Memory Mode ® Sparing**. For information about installing DIMMs for memory sparing, see “Memory module installation” on page 60.

- **Mobile access to Lenovo Service Information website**

  The server provides a QR code on the system service label, which is on the cover of the server, that you can scan using a QR code reader and scanner with a mobile device to get quick access to the Lenovo Service Information website. The Lenovo Service Information website provides additional information for parts installation and replacement videos, and error codes for server support. For the QR code, see QR code information on page Chapter 1 “The Lenovo System x3500 M4 Type 7383 server” on page 1.

- **Multi-core processors**

  The server supports up to two Intel Xeon™ E5-2600 series multi-core microprocessors. The server comes with only one microprocessor installed.

- **PCI adapter capabilities**

  The server has six PCI interface slots. Slot 1 can support PCI Express or PCI-X adapters through an optional PCI-X interposer card. See “Installing an adapter” on page 216 for detailed information.

- **Redundant connection**

  The addition of the optional Ethernet daughter card provides failover capability to a redundant Ethernet connection with the applicable application installed. If a problem occurs with the primary Ethernet connection and the optional Ethernet daughter card is installed on the server, all Ethernet traffic that is associated with the primary connection is automatically switched to the optional redundant Ethernet daughter card connection. If the applicable device drivers are installed, this switching occurs without data loss and without user intervention.

- **Redundant cooling and optional power capabilities**

The server supports a maximum of two 750-watt or 900-watt hot-swap power supplies and six simple-swap fans, which provide redundancy and hot-swap capability for a typical configuration. The redundant cooling by the fans in the server enables continued operation if one of the fans fails. The server comes with one 750-watt or 900-watt hot-swap power supply and two fans.

You must install fan 2 when you install the second microprocessor in the server. You can order the optional fan 4, 5, and 6 for cooling redundancy. You can order the second optional power supply for power redundancy.

**Notes:**

1. You cannot mix 750-watt and 900-watt power supplies in the server.
2. The server is not running in power redundant mode with two 225W GPUs installed, two 900-watt power supplies are required.

- **Remote presence and blue-screen capture features**

  The remote presence and blue-screen capture features are integrated functions of the Integrated Management Module II (IMM2). The remote presence feature provides the following functions:

  – Remotely viewing video with graphics resolutions up to 1600 x 1200 at 75 Hz, regardless of the system state

  – Remotely accessing the server, using the keyboard and mouse from a remote client

  – Mapping the CD or DVD drive, diskette drive, and USB flash drive on a remote client, and mapping ISO and diskette image files as virtual drives that are available for use by the server

  – Uploading a diskette image to the IMM2 memory and mapping it to the server as a virtual drive

  The blue-screen capture feature captures the video display contents before the IMM2 restarts the server when the IMM2 detects an operating-system hang condition. A system administrator can use the blue-screen capture feature to assist in determining the cause of the hang condition.

  See “Using the remote presence and blue-screen capture features” on page 115 for additional information.

- **ServeRAID support**

  The ServeRAID adapter provides hardware redundant array of independent disks (RAID) support to create configurations. The standard RAID adapter provides RAID levels 0, 1, and 10. An optional RAID adapter is available for purchase.

- **Systems-management capabilities**

  The server comes with an Integrated Management Module II (IMM2). When the IMM2 is used with the systems-management software that comes with the server, you can manage the functions of the server locally and remotely. The IMM2 also provides system monitoring, event recording, and network alert capability. The systems-management connector on the rear of the server is dedicated to the IMM2. The dedicated systems-management connector provides additional security by physically separating the management network traffic from the production network. You can use the Setup utility to configure the server to use a dedicated systems-management network or a shared network.

- **UEFI-compliant server firmware**

  The UEFI firmware offers several features, including Unified Extensible Firmware Interface (UEFI) version 2.1 compliance, Active Energy Management (AEM) technology, enhanced reliability, availability, and serviceability (RAS) capabilities, and basic input/output system (BIOS) compatibility support. UEFI replaces the BIOS and defines a standard interface between the operating system, platform firmware, and external devices. The server is capable of booting UEFI-compliant operating systems, BIOS-based operating systems, and BIOS-based adapters as well as UEFI-compliant adapters. For more information about UEFI-compliant firmware, go to http://www.ibm.com/support/entry/portal/docdisplay?lndocid=MIGR-5083207.

  **Note:** The server does not support DOS.

- **VMware ESXi embedded hypervisor**

An optional USB flash device with VMware ESXi embedded hypervisor software is available for purchase. Hypervisor is virtualization software that enables multiple operating systems to run on a host system at the same time. Install the USB flash device in the USB embedded hypervisor flash device connectors on the system board (see “System-board internal connectors” on page 27). See “Using the embedded hypervisor” on page 117 for additional information.

## Reliability, availability, and serviceability

Three important computer design features are reliability, availability, and serviceability (RAS). The RAS features help to ensure the integrity of the data that is stored in the server, the availability of the server when you need it, and the ease with which you can diagnose and correct problems.

Your server has the following RAS features:

- 3-year parts and 3-year labor limited warranty (Machine Type 7383)
- 24-hour support center
- Automatic error retry and recovery
- Automatic restart on nonmaskable interrupt (NMI)
- Automatic restart after a power failure
- Backup basic input/output system switching under the control of the Integrated Management Module II (IMM2)
- Built-in monitoring for fan, power, temperature, voltage, and power-supply redundancy
- Cable-presence detection on most connectors
- Chipkill memory protection
- Single-device data correction (SDDC) for x4 DRAM technology DIMMs (available on 16 GB DIMMs only). Ensures that data is available on a single x4 DRAM DIMM after a hard failure of up to two DRAM DIMMs. One x4 DRAM DIMM in each rank is reserved as a space device.
- Diagnostic support for ServeRAID and Ethernet adapters
- Error codes and messages
- Error correcting code (ECC) L3 cache and system memory
- Full Array Memory Mirroring (FAMM) redundancy
- Hot-swap cooling fans with speed-sensing capability
- Hot-swap hard disk drives
- Hot-swap power supplies
- Information and light path diagnostics LED panels
- Integrated Management Module II (IMM2)
- Light path diagnostics LEDs for DIMMs, microprocessors, hard disk drives, solid state drives, power supplies, and fans
- Memory mirroring and memory sparing support
- Memory error correcting code and parity test
- Memory downsizing (non-mirrored memory). After a restart of the server after the memory controller detects a non-mirrored uncorrectable error and the memory controller cannot recover operationally, the IMM2 logs the uncorrectable error and informs POST. POST logically maps out the memory with the uncorrectable error, and the server restarts with the remaining installed memory.
- Menu-driven setup, system configuration, and redundant array of independent disks (RAID) configuration programs
- Microprocessor built-in self-test (BIST), internal error signal monitoring, internal thermal trip signal monitoring, configuration checking, and microprocessor and voltage regulator module failure identification through light path diagnostics
- Nonmaskable interrupt (NMI) button
- Parity checking on the PCIe buses
- Power management: compliance with Advanced Configuration and Power Interface (ACPI)
- Power-on self-test (POST)
- Predictive Failure Analysis (PFA) alerts on memory, SAS/SATA hard disk drives or solid state drives
- Redundant Ethernet capabilities with failover support
- Redundant hot-swap power supplies and redundant hot-swap fans

- Redundant network interface card (NIC) support
- Remind button to temporarily turn off the system-error LED
- Remote system problem-determination support
- ROM-based diagnostics
- ROM checksums
- Serial Presence Detection (SPD) on memory, VPD on system board, power supply, and hard disk drive or solid state drive backplanes, microprocessor and memory expansion tray, and Ethernet adapters
- Single-DIMM isolation of excessive correctable error or multi-bit error by the Unified Extensible Firmware Interface (UEFI)
- Solid-state drives
- Standby voltage for systems-management features and monitoring
- Startup (boot) from LAN through remote initial program load (RIPL) or dynamic host configuration protocol/boot protocol (DHCP/BOOTP)
- System auto-configuring from the configuration menu
- System-error logging (POST and IMM2)
- Systems-management monitoring through the Inter-Integrated Circuit (I2C) protocol bus
- Uncorrectable error (UE) detection
- Upgradeable POST, Unified Extensible Firmware Interface (UEFI), diagnostics, IMM2 firmware, and read-only memory (ROM) resident code, locally or over the LAN
- Vital product data (VPD) on microprocessors, system board, power supplies, and SAS/SATA (hot-swap hard disk drive or solid state drive) backplane
- Wake on LAN capability

## Systems Director

Systems Director is a platform-management foundation that streamlines the way you manage physical and virtual systems in a heterogeneous environment. By using industry standards, Systems Director supports multiple operating systems and virtualization technologies in Lenovo and non-Lenovo x86 platforms.

Through a single user interface, Systems Director provides consistent views for viewing managed systems, determining how these systems relate to one other, and identifying their statuses, helping to correlate technical resources with business needs. A set of common tasks that are included with Systems Director provides many of the core capabilities that are required for basic management, which means instant out-of-the-box business value. The common tasks include discovery, inventory, configuration, system health, monitoring, updates, event notification, automation for managed systems, hardware log, power, and light path.

The Systems Director web and command-line interfaces provide a consistent interface that is focused on driving these common tasks and capabilities:

- Discovering, navigating, and visualizing systems on the network with the detailed inventory and relationships to the other network resources
- Notifying users of problems that occur on systems and the ability to isolate the source of the problem
- Notifying users when systems need updates and distributing and installing updates on a schedule
- Analyzing real-time data for systems and setting critical thresholds that notify the administrator of emerging problems
- Configuring settings of a single system and creating a configuration plan that can apply those settings to multiple systems
- Updating installed plug-ins to add new features and functions to the base capabilities
- Managing the life cycles of virtual resources

For more information about Systems Director, see the Systems Director Information Center at http://pic.dhe.ibm.com/infocenter/director/pubs/index.jsp, and the Systems Management web page

at http://shop.lenovo.com/us/en/systems/solutions/, which presents an overview of Lenovo Systems Management and Systems Director.

## Server controls, LEDs, and power

This section describes the controls and light-emitting diodes (LEDs) and how to turn the server on and off.

For the locations of other LEDs on the system board, see “System-board LEDs and controls” on page 31.

## Front view

The following illustration shows the controls, LEDs, and connectors on the front of the server.

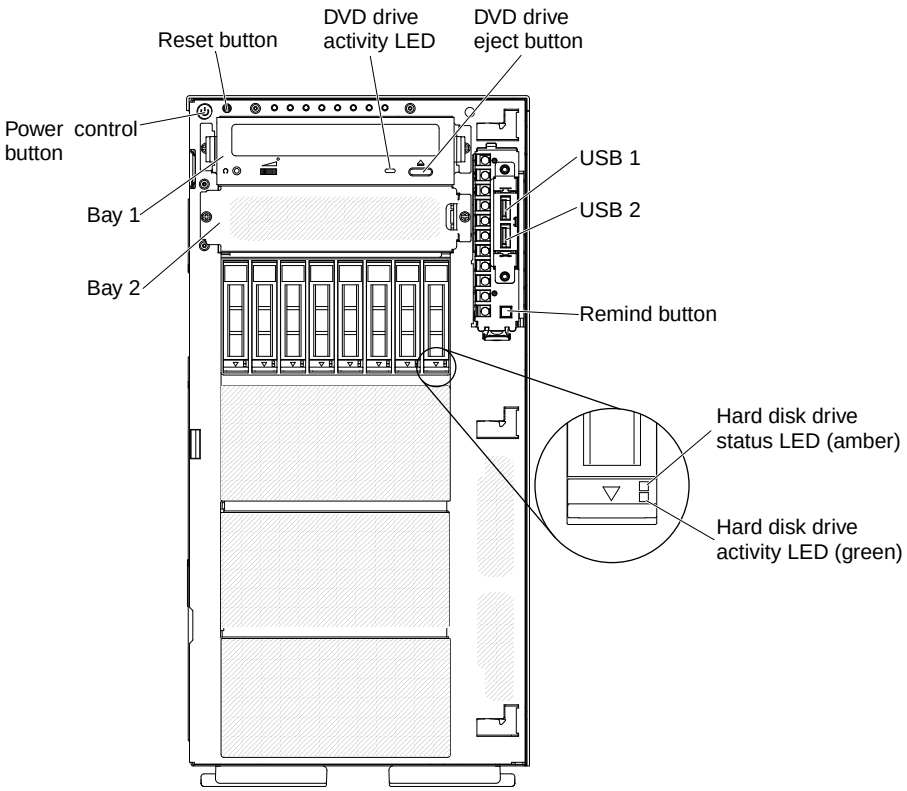



*Figure 3. Front view of server*

**Note:** The front bezel is not shown so that the drive bays are visible.

- **Power-control button:**

  Press this button to turn the server on and off manually.
- **Hard disk drive activity LEDs:**

  This LED is used on hot-swap SAS or SATA hard disk drives. Each hot-swap hard disk drive has an activity LED, and when this LED is flashing, it indicates that the drive is in use.
- **Hard disk drive status LEDs:**

  This LED is used on hot-swap SAS or SATA hard disk drives. When this LED is lit, it indicates that the drive has failed. If an optional Lenovo ServeRAID controller is installed in the server, when this LED is flashing slowly (one flash per second), it indicates that the drive is being rebuilt. When the LED is flashing rapidly (three flashes per second), it indicates that the controller is identifying the drive.

- **DVD drive activity LED:**

  When this LED is lit, it indicates that the DVD drive is in use.

- **DVD eject button:**

  Press this button to release a DVD or CD from the DVD drive.

- **Light path diagnostics panel:**

  Light path diagnostics is a system of LEDs on various external and internal components of the server. When an error occurs, LEDs are lit throughout the server. By viewing the LEDs in a particular order, you can often identify the source of the error. See “Light path diagnostics panel” on page 19 for more information about the light path diagnostics.

- **Operator information panel:**

  This panel contains controls and LEDs that provide information about the status of the server. For information about the controls and LEDs on the operator information panel, see “Operator information panel” on page 18.

- **Remind button:**

  This button places the system-error LED/check log LED on the operator information panel into Remind mode. In Remind mode, the system-error LED flashes once every 2 seconds until the problem is corrected, the server is restarted, or a new problem occurs.

  By placing the system-error LED indicator in Remind mode, you acknowledge that you are aware of the last failure but will not take immediate action to correct the problem. The remind function is controlled by the IMM2.

- **Reset button:**

  Press this button to reset the server and run the power-on self-test (POST). You might have to use a pen or the end of a straightened paper clip to press the button. The Reset button is in the lower-right corner of the light path diagnostics panel.

- **USB connectors:**

  Connect a USB device, such as a USB mouse or keyboard to any of these connectors.

## Operator information panel

The following illustration shows the controls and LEDs on the operator information panel.

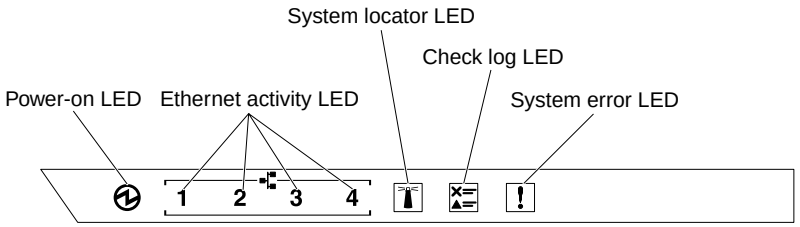



*Figure 4. Operator information panel*

- **Power-on LED:**

  When this LED is lit and not flashing, it indicates that the server is turned on. The states of the power-on LED are as follows:

  – **Off:**

    Power is not present or the power supply, or the LED itself has failed.

– **Flashing rapidly (4 times per second):**

  The server is turned off and is not ready to be turned on. The power-control button is disabled. This will last approximately 5 to 10 seconds.

– **Flashing slowly (once per second):**

  The server is turned off and is ready to be turned on. You can press the power-control button to turn on the server.

– **Lit:**

  The server is turned on.

- **Ethernet activity LEDs:**

  When any of these LEDs is flashing, they indicate that the server is transmitting to or receiving signals from the Ethernet LAN that is connected to the Ethernet port that corresponds to that LED.

- **System-locator LED:**

  Use this blue LED to visually locate the server among other servers. You can use IBM Systems Director to light this LED remotely. This LED is controlled by the IMM2. When you light the system-locator LED, the LED will blink and it will continue to blink until you turn it off.

- **Check log LED:**

  When this yellow LED is lit, it indicates that there are errors that require further diagnosis. Check the IMM2 event log for additional information. See “Event logs” on page 141 for more information about event logs.

- **System-error LED:**

  When this yellow LED is lit, it indicates that a system error has occurred. An LED on the light path diagnostics panel is lit to help isolate the error. This LED is controlled by the IMM2.

The following table describes the LEDs on the operator information panel and suggested actions to correct the detected problems.

*Table 2. Operator information panel LEDs*

| LED | Description | Action |
|---|---|---|
| System locator (blue) | Use this LED to visually locate the server among other servers. You can use IBM Systems Director or IMM2 to light this LED remotely. | |
| Check log (yellow) | An error has occurred and cannot be isolated without performing certain procedures. | 1. Check the IMM2 system event log and the system-error log for information about the error.<br>2. Save the log if necessary and clear the log afterwards. |
| System-error (yellow) | An error has occurred. | 1. Check the light path diagnostics LEDs and follow the instructions.<br>2. Check the IMM2 system event log and the system-error log for information about the error.<br>3. Save the log if necessary and clear the log afterwards. |

## Light path diagnostics panel

The following illustration shows the front LEDs on the light path diagnostics panel. The light path diagnostic panel can be seen from the front bezel.

**Note:** The light path diagnostics LEDs remain lit only while the server is connected to power.

For more information about the LEDs on the light path diagnostics panel, see “Light path diagnostics LEDs” on page 135.

The following illustration shows the LEDs on the light path diagnostics panel.

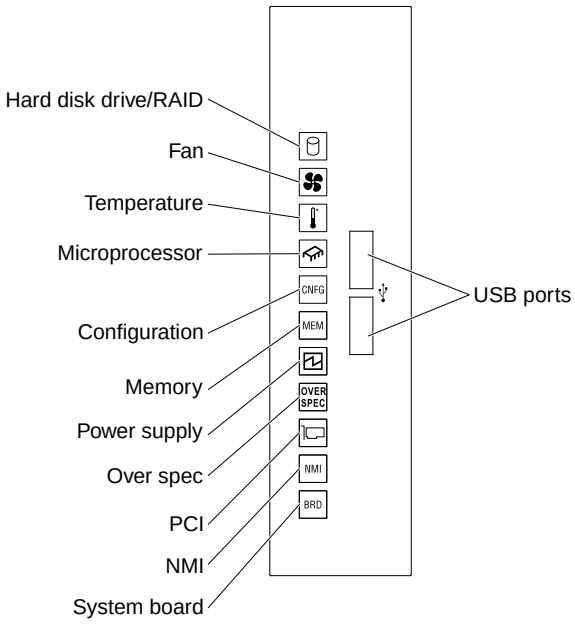



*Figure 5. Light path diagnostics panel*

## Rear view

The following illustrations show the connectors and LEDs on the rear of the server.

The following illustration shows the connectors on the rear of the server.

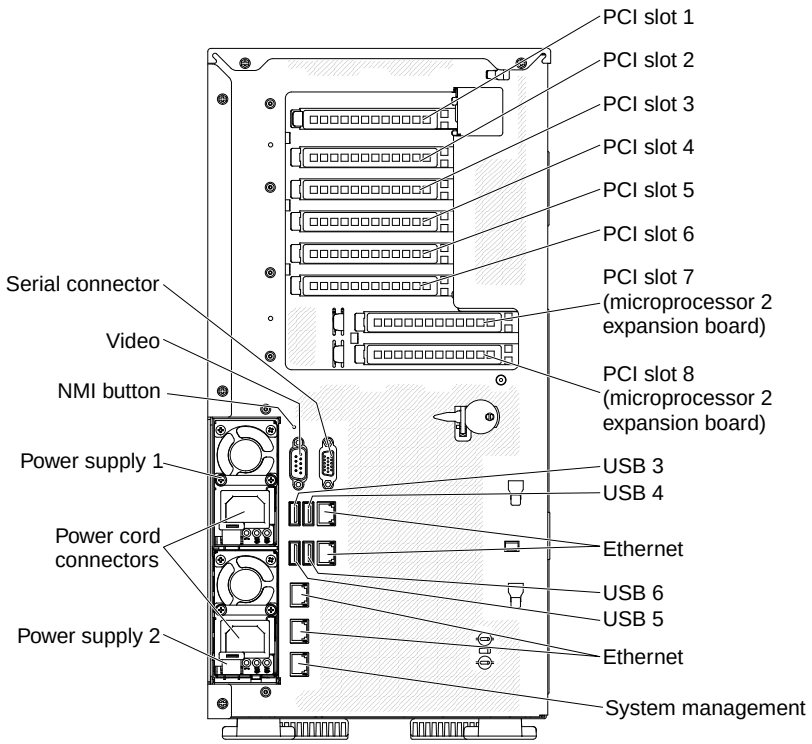



*Figure 6. Rear view of server*

- **NMI button:** Press this button to force a nonmaskable interrupt to the microprocessor. It allows you to blue screen the server and take a memory dump (use this button only when directed by the Lenovo service support). You might have to use a pen or the end of a straightened paper clip to press the button.
- **PCI slot 1:** Insert a half-length, full-height PCI Express adapter or a PCI-X interposer card into this slot.
- **PCI slot 2:** Insert a half-length, full-height PCI Express adapter into this slot.
- **PCI slot 3:** Insert a full-length, full-height PCI Express adapter into this slot.
- **PCI slot 4:** Insert a full-length, full-height PCI Express adapter into this slot.
- **PCI slot 5:** Insert a full-length, full-height PCI Express adapter into this slot (support 225W GPU).
- **PCI slot 6:** Insert a full-length, full-height PCI Express adapter into this slot.
- **PCI slot 7:** Insert a full-length, full-height PCI Express adapter into this slot (support 225W GPU).
- **PCI slot 8:** Insert a full-length, full-height PCI Express adapter into this slot.
- **Power connector:** Connect the power cord to this connector.

  **Note:** Power supply 1 is the default/primary power supply. If power supply 1 fails, you must replace it immediately.
- **Video connector:** Connect a monitor to this connector.

  **Note:** The maximum video resolution is 1600 x 1200 at 75 Hz.
- **Serial connector:** Connect a 9-pin serial device to this connector. The serial port is shared with the Integrated Management Module II (IMM2). The IMM2 can take control of the shared serial port to redirect serial traffic, using Serial over LAN (SOL).
- **USB connectors:** Connect a USB device, such as a USB mouse or keyboard to any of these connectors.

- **Systems-management Ethernet connector:** Use this connector to connect the server to a network for full systems-management information control. This connector is used only by the Integrated Management Module II (IMM2). A dedicated management network provides additional security by physically separating the management network traffic from the production network. You can use the Setup utility to configure the server to use a dedicated systems management network or a shared network.
- **Ethernet connectors:** Use either of these connectors to connect the server to a network. When you enable shared Ethernet for IMM2 in the Setup utility, you can access the IMM2 using either the Ethernet 1 or the system-management Ethernet connector.

The following illustration shows the LEDs on the rear of the server.

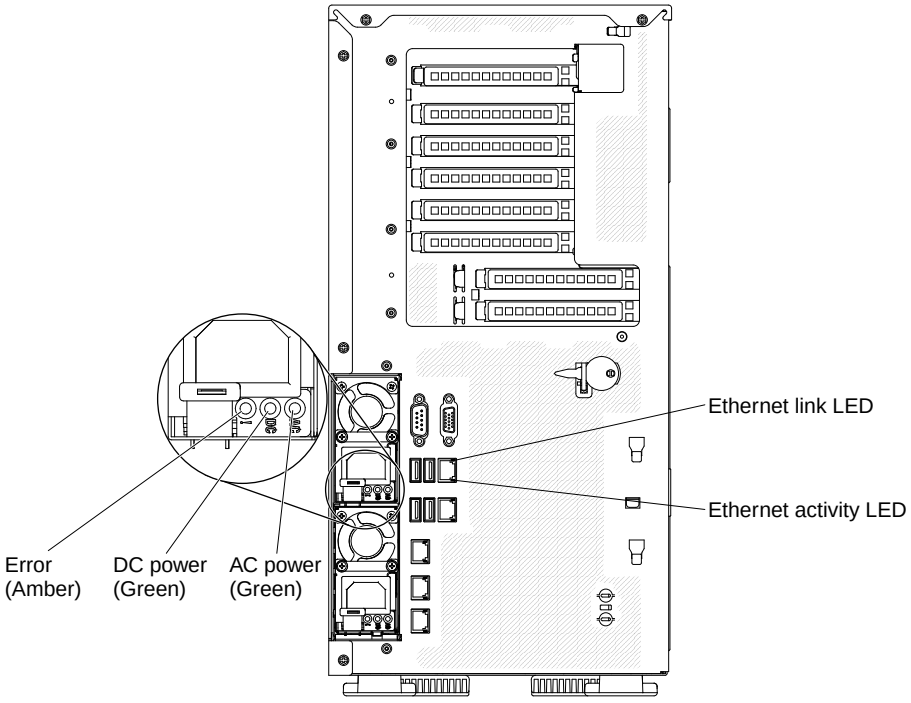



*Figure 7. The LEDs on the rear of the server*

- **Ethernet activity LEDs:** When these LEDs are lit, they indicate that the server is transmitting to or receiving signals from the Ethernet LAN that is connected to the Ethernet port.
- **Ethernet link LEDs:** When these LEDs are lit, they indicate that there is an active link connection on the Ethernet port.
- **AC power LED:** Each hot-swap power supply has an ac power LED. When the ac power LED is lit, it indicates that sufficient power is coming into the power supply through the power cord. During typical operation, the ac power LED is lit.
- **DC power LED:** Each hot-swap power supply has a dc power LED and an ac power LED. When the dc power LED is lit, it indicates that the power supply is supplying adequate dc power to the system. During typical operation, both the ac and dc power LEDs are lit.
- **Power-supply error LED:** When the power-supply error LED is lit, it indicates that the power supply has failed.

  **Note:** Power supply 1 is the default/primary power supply. If power supply 1 fails, you must replace the power supply immediately.

## Server power features

When the server is connected to a suitable input source but is not turned on, the operating system does not run, and all core logic except for the service processor (the integrated management module) is shut down.

However, the server can respond to requests to the service processor, such as a remote request to turn on the server. The power-on LED flashes to indicate that the server is connected to input power but is not turned on.

### Turning on the server

Use this information to turn on the server.

Approximately 5 seconds after the server is connected to input power, one or more fans might start running and the power-on LED flashes quickly. Approximately 10 seconds after the server is connected to input power, the power-on button becomes active. After the power-on button becomes active, the power-on LED flashes slowly. You can turn on the server by pressing the power-on button.

Step 1. Press the power-on button to turn on the server.

Step 2. The server can also be turned on in any of the following ways:

- If a power failure occurs while the server is turned on, the server will restart automatically when power is restored.
- If your operating system supports the Wake on LAN feature, the Wake on LAN feature can turn on the server.

**What to do next**

1. When 4 GB or more of memory (physical or logical) is installed, some memory is reserved for various system resources and is unavailable to the operating system. The amount of memory that is reserved for system resources depends on the operating system, the configuration of the server, and the configured PCI options.
2. When you turn on the server with external graphical adapters installed, the Lenovo logo displays on the screen after approximately 3 minutes. This is normal operation while the system loads.
3. Make sure the left-side cover is closed.

### Turning off the server

Use this information to turn off the server.

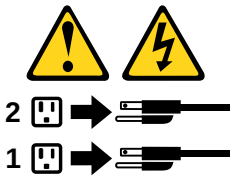
When you turn off the server and leave it connected to input power, the server can respond to requests to the service processor (the Integrated Management Module II (IMM2)), such as a remote request to turn on the server. While the server remains connected to input power, one or more fans might continue to run. To remove all power from the server, you must disconnect it from the power source.

Some operating systems require an orderly shutdown before you turn off the server. See your operating-system documentation for information about shutting down the operating system.

**Statement 5**

**CAUTION:**
**The power control button on the device do not turn off the electrical current supplied to the device.**

**The device also might have more than one power cord. To remove all electrical current from the device, ensure that all power cords are disconnected from the power source.**




The server can be turned off in any of the following ways:

- You can turn off the server from the operating system, if your operating system supports this feature. After an orderly shutdown of the operating system, the server will turn off automatically.
- You can press the power-control button to start an orderly shutdown of the operating system and turn off the server, if your operating system supports this feature.
- If the operating system stops functioning, you can press and hold the power-control button for more than 4 seconds to turn off the server.
- The server can be turned off by Wake on LAN feature with the following limitation:

  **Note:** When you install any PCI adapter, the power cords must be disconnected from the power source before you remove the PCI Express assembly and the PCI-X assembly. Otherwise, the Wake on LAN feature might not work.
- The Integrated Management Module II (IMM2) can turn off the server as an automatic response to a critical system failure.
- The server turns off when the left-side cover is opened.

# Chapter 2. Installing optional devices

This chapter provides detailed instructions for installing optional hardware devices in the server.

In addition to the instructions in this chapter for installing optional hardware devices, updating the firmware and device drivers, and completing the installation, Lenovo Business Partners must also complete the steps in “Instructions for Lenovo Business Partners” on page 25.

**Important:** To help ensure that the devices that you install work correctly and do not introduce problems, observe the following precautions.

Step 1. Make sure that the server and the installed firmware levels support the devices that you are installing. If necessary, update the UEFI and IMM2 firmware and any other firmware that is stored on the system board. For information about where firmware is stored in the server, see “Updating the firmware” on page 103. For a list of supported optional devices for the server, see http://www.lenovo.com/ serverproven/.

Step 2. Use the best practices to apply current firmware and device-driver updates for the server and optional devices. To download the *Firmware Update Guides* document, go to http://www.lenovo.com/support. Additional hints and tips are available from the following website:

- System x configuration tools: http://www.ibm.com/systems/x/hardware/configtools.html

Step 3. Before you install optional hardware devices, make sure that the server is working correctly. Start the server and make sure that the operating system starts, if an operating system is installed, or that a 19990305 error code is displayed, indicating that an operating system was not found but the server is otherwise working correctly. If the server is not working correctly, see “Running DSA Preboot diagnostic programs” on page 145 for information about how to run diagnostics.

Step 4. Follow the installation procedures in this chapter and use the correct tools. Incorrectly installed devices can cause system failure because of damaged pins in sockets or connectors, loose cabling, or loose components.

## Instructions for Lenovo Business Partners

Instructions for Lenovo Business Partners on verifying the newly installed devices by running the Dynamic System Analysis (DSA) stress test.

In addition to the instructions in this chapter for installing optional hardware devices, updating firmware and device drivers, and completing the installation, Lenovo Business Partners must also complete the following steps:

1. After you have confirmed that the server starts correctly and recognizes the newly installed devices and that no error LEDs are lit, run the Dynamic System Analysis (DSA) stress test. For information about using DSA, see “Lenovo Dynamic System Analysis” on page 144.
2. Shut down and restart the server multiple times to ensure that the server is correctly configured and functions correctly with the newly installed devices.
3. Save the DSA log as a file and send it to Lenovo. For information about transferring data and logs, see “Sending DSA data to Lenovo” on page 26.
4. To ship the server, repackage it in the original undamaged packing material and observe Lenovo procedures for shipping.

Support information for Lenovo Business Partners is available at http://www.ibm.com/partnerworld.

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## Sending DSA data to Lenovo

You can send DSA data to Lenovo with standard upload, standard upload with the system serial number, secure upload, and secure upload with the system serial number.

Before you send diagnostic data to Lenovo, read the terms of use at http://www.ibm.com/de/support/ ecurep/terms.html.

You can use any of the following methods to send diagnostic data to Lenovo:

- **Standard upload**:

  http://www.ibm.com/de/support/ ecurep/send_http.html
- **Standard upload with the system serial number**:

  http://www.ecurep.ibm.com/app/ upload_hw
- **Secure upload**:

  http://www.ibm.com/de/support/ ecurep/send_http.html#secure
- **Secure upload with the system serial number**:

  https://www.ecurep.ibm.com/ app/upload_hw

## Server components

The following illustration shows the major components in the server.

The illustrations in this document might differ slightly from your hardware.

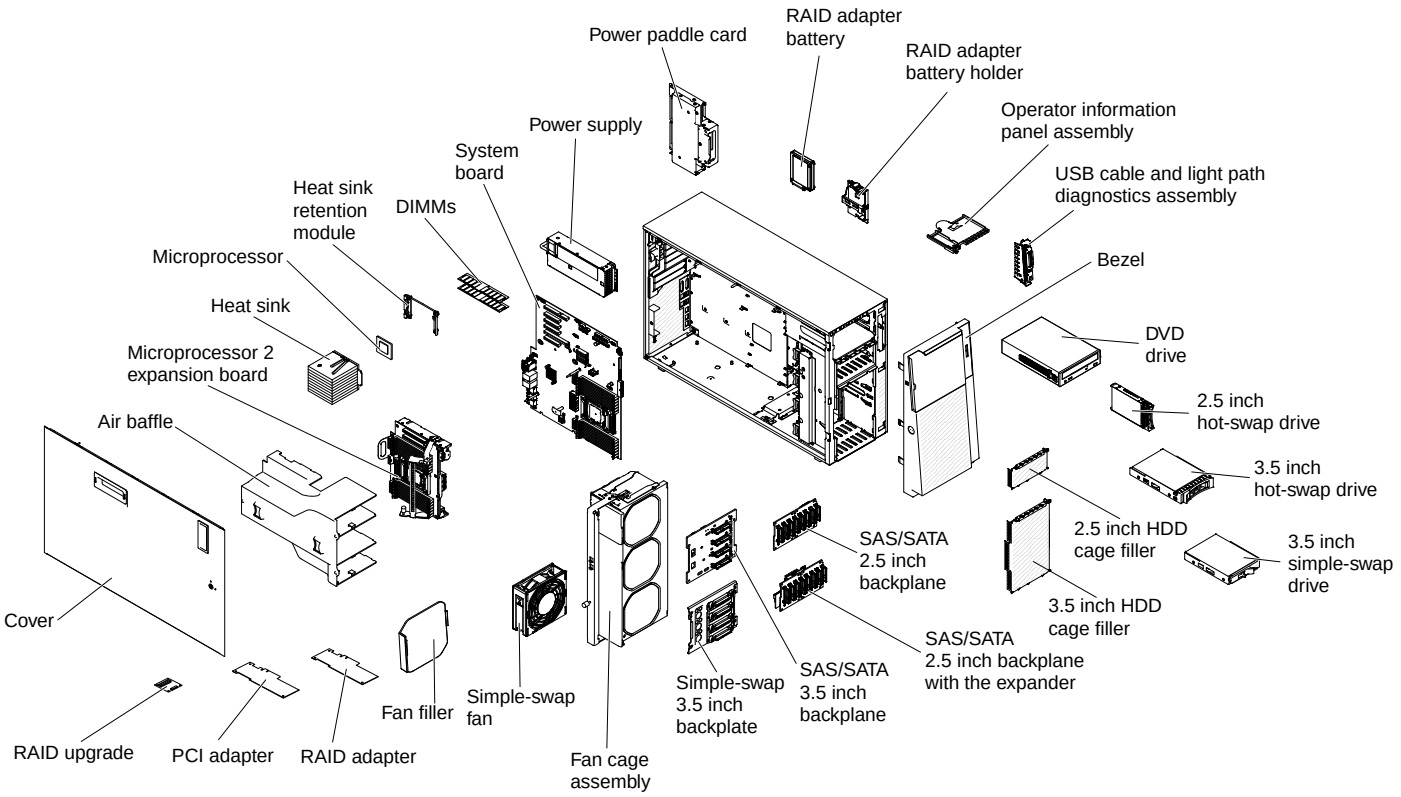



*Figure 8. Server components*

## System-board internal connectors

The following illustrations show the internal connectors on the system board and the microprocessor 2 expansion board.

The following illustration shows the internal connectors on the system board.

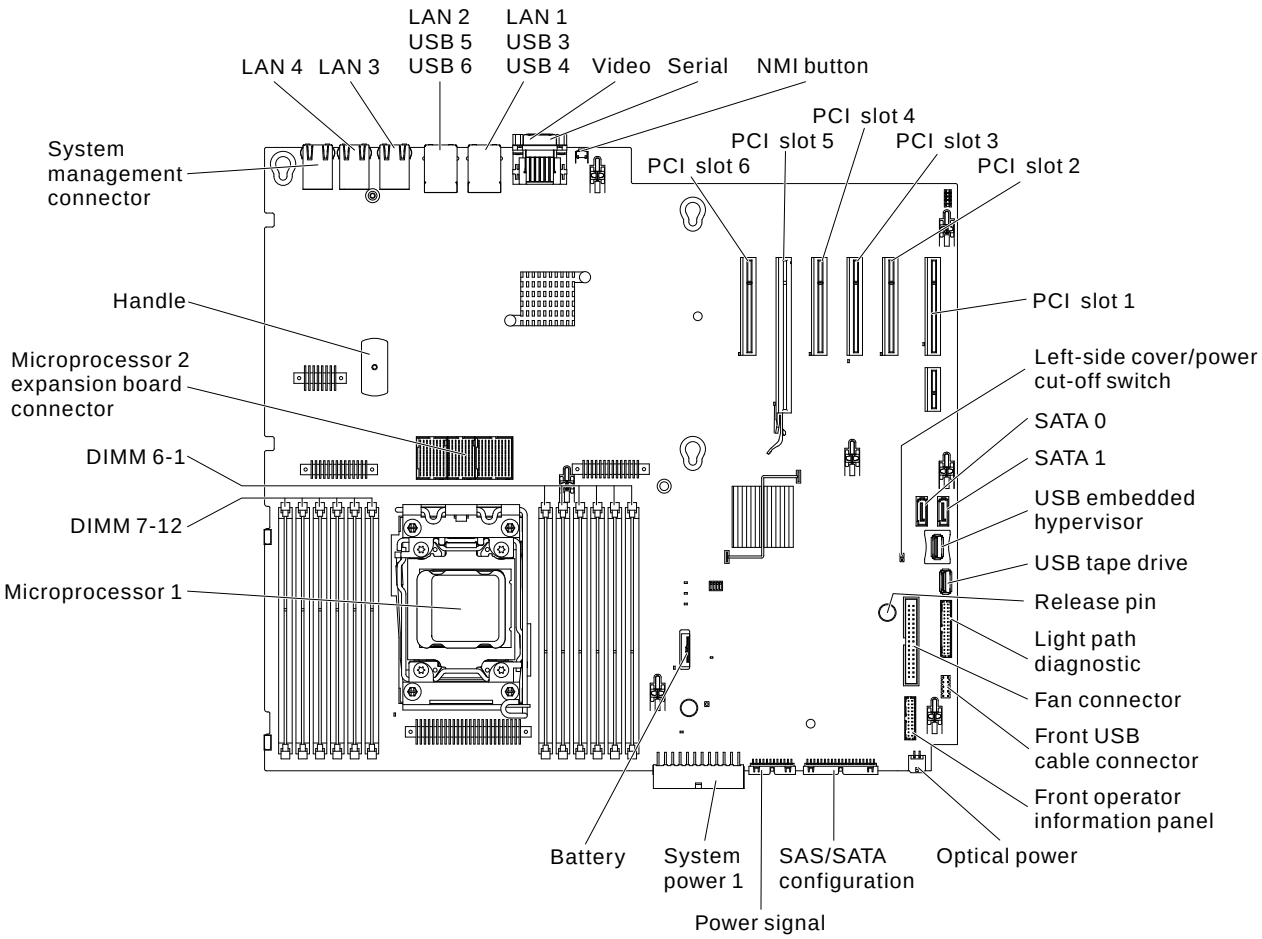



*Figure 9. Internal connectors on system board*

The following illustration shows the internal connectors on the microprocessor 2 expansion board.

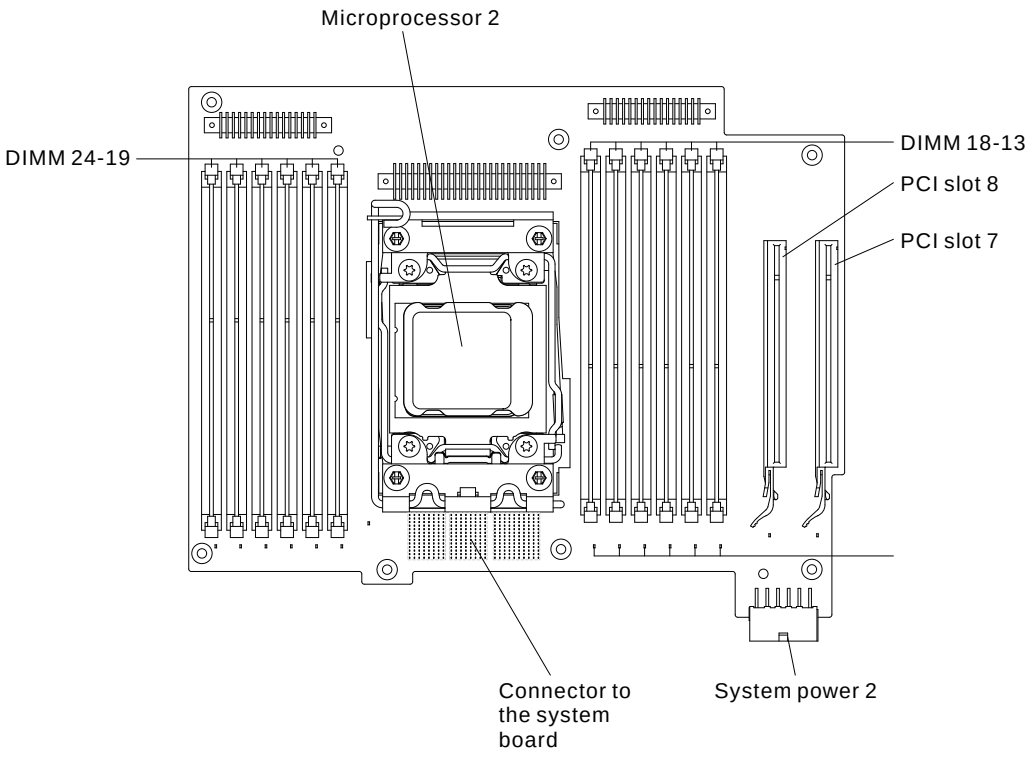



*Figure 10. Internal connectors on microprocessor 2 expansion board*

## System-board external connectors

The following illustration shows the external connectors on the system board.

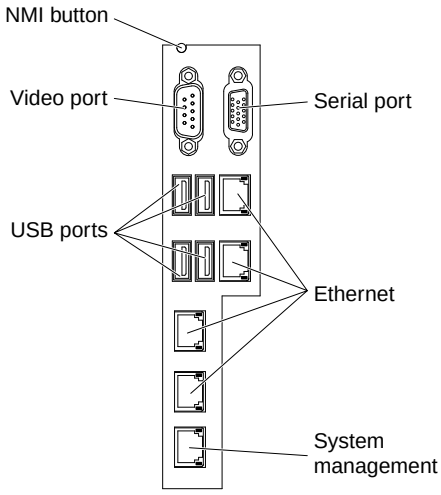



*Figure 11. External connectors on system board*

## System-board switches and jumpers

The following illustration shows the location and description of the switches and jumpers.

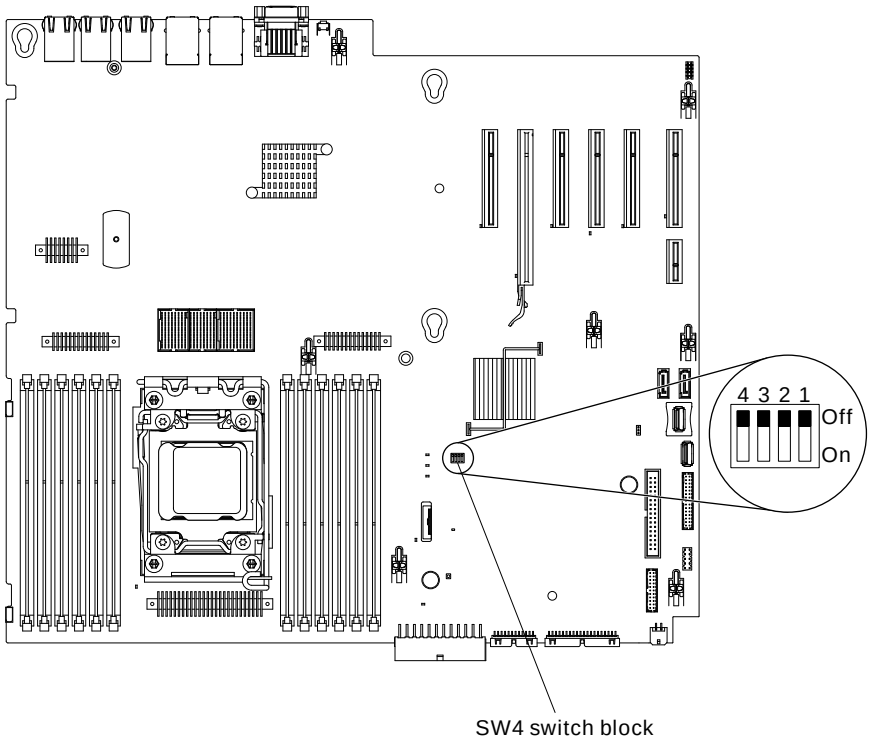



*Figure 12. Location and description of switches and jumpers*

**Note:** If there is a clear protective sticker on the top of the switch blocks, you must remove and discard it to access the switches.

The following table describes the functions of the SW4 switch block on the system board.

*Table 3. System board SW4 switch block definition*

| Switch number | Switch name | Default position | Description |
|---|---|---|---|
| 1 | UEFI boot backup | Off | When this switch is off, the primary firmware ROM page is loaded. When this switch is on, the secondary (backup) firmware ROM page is loaded.<br><br>**Note:** Changing the position of the UEFI boot back switch before the server is turned on alters which flash ROM page is loaded. Do not move the switch after the server is turned on. This can cause an unpredictable problem. |
| 2 | System TPM physical presence | Off | Indicates a physical presence to the system TPM when on. |

*Table 3. System board SW4 switch block definition (continued)*

| Switch number | Switch name | Default position | Description |
|---|---|---|---|
| 3 | Power-on password override | Off | Bypasses the power-on password check the next time the server is turned on and starts the Setup utility so that you can change or delete the power-on password when on.<br><br>**Notes:**<br>1. You do not have to move the switch back to the default position after the power-on password in overridden.<br>2. Changing the position of this switch does not affect the administrator password check if an administrator password is set. See “Passwords” on page 111 for additional information about passwords. |
| 4 | CMOS clear | Off | Clears CMOS memory when on. |

**Notes:**

1. Before you change any switch settings or move any jumpers, turn off the server. Review the information in “Safety” on page v, “Installation guidelines” on page 35, “Handling static-sensitive devices” on page 37, and “Turning off the server” on page 23.
2. Any system-board switch or jumper block that is not shown in the illustrations in this document are reserved.

## System-board LEDs and controls

The following illustration shows the light-emitting diodes (LEDs) on the system board.

Any error LED can be lit after ac power has been removed from the system-board tray so that you can isolate a problem. After ac power has been removed from the system-board tray, power remains available to these LEDs for up to 90 seconds. To view the error LEDs, press and hold the light path button on the system board to light the error LEDs. The error LEDs that were lit while the system-board tray was running will be lit again while the button is pressed.

The following illustration shows the LEDs and controls on the system board.

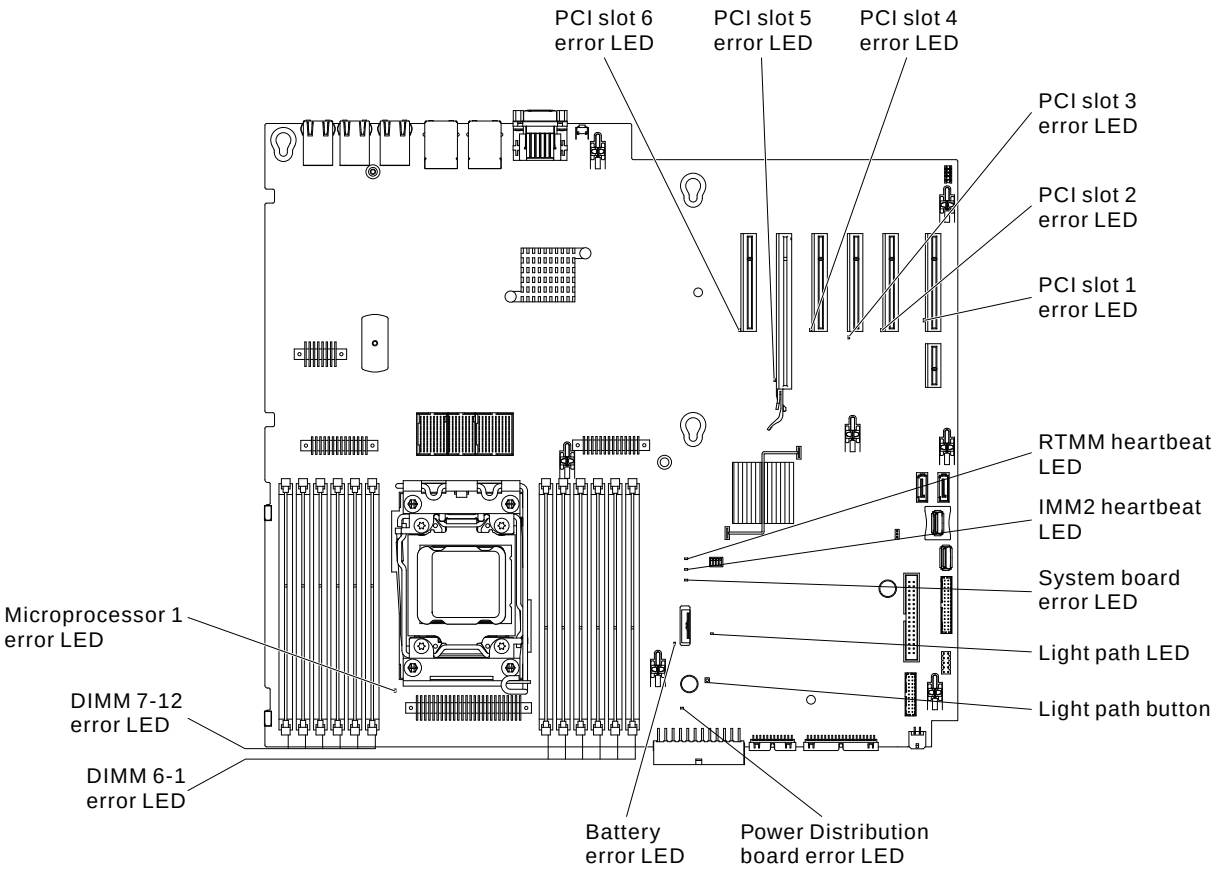



*Figure 13. LEDs and controls on system board*

The following illustration shows the LEDs on the microprocessor 2 expansion board.

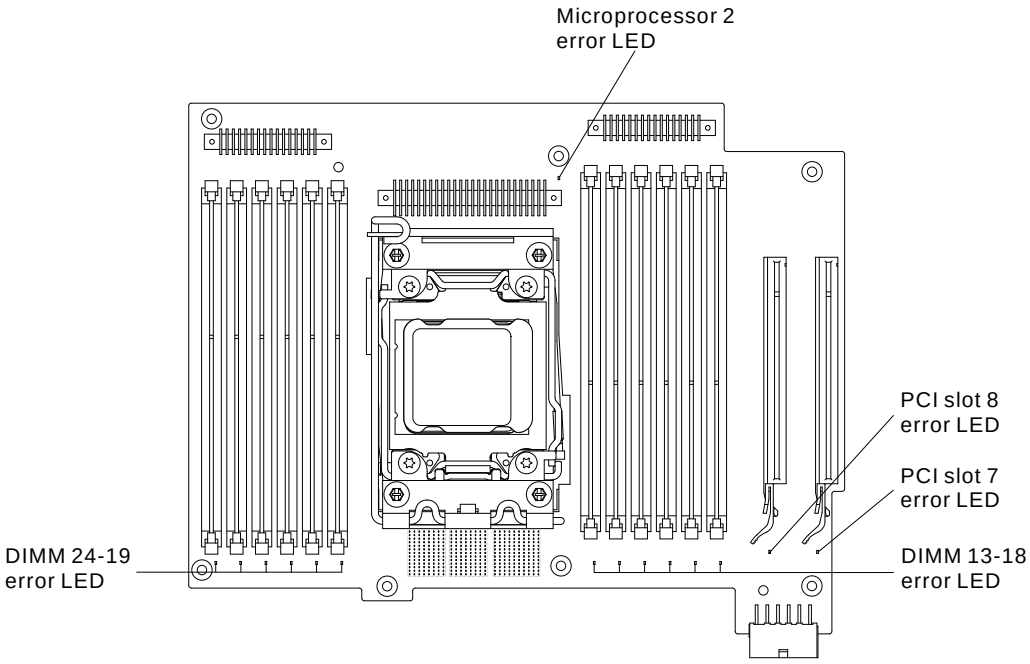



*Figure 14. LEDs on microprocessor 2 expansion board*

## Hard disk drive backplane connectors

The following illustrations show the connectors on the 2.5-inch and 3.5-inch hard disk drive backplanes and the backplate assembly.

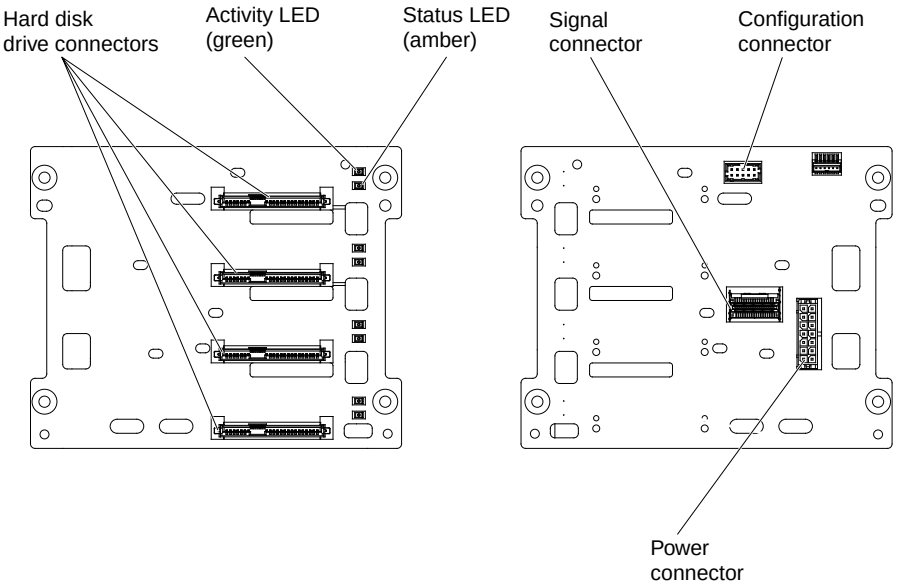



*Figure 15. Connectors on the 3.5-inch hard disk drive backplane*

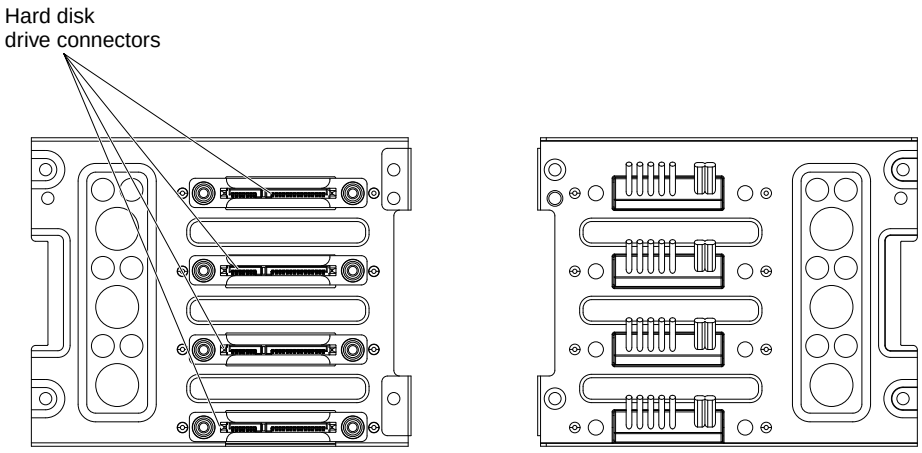



*Figure 16. Connectors on the 3.5-inch hard disk drive backplate assembly*

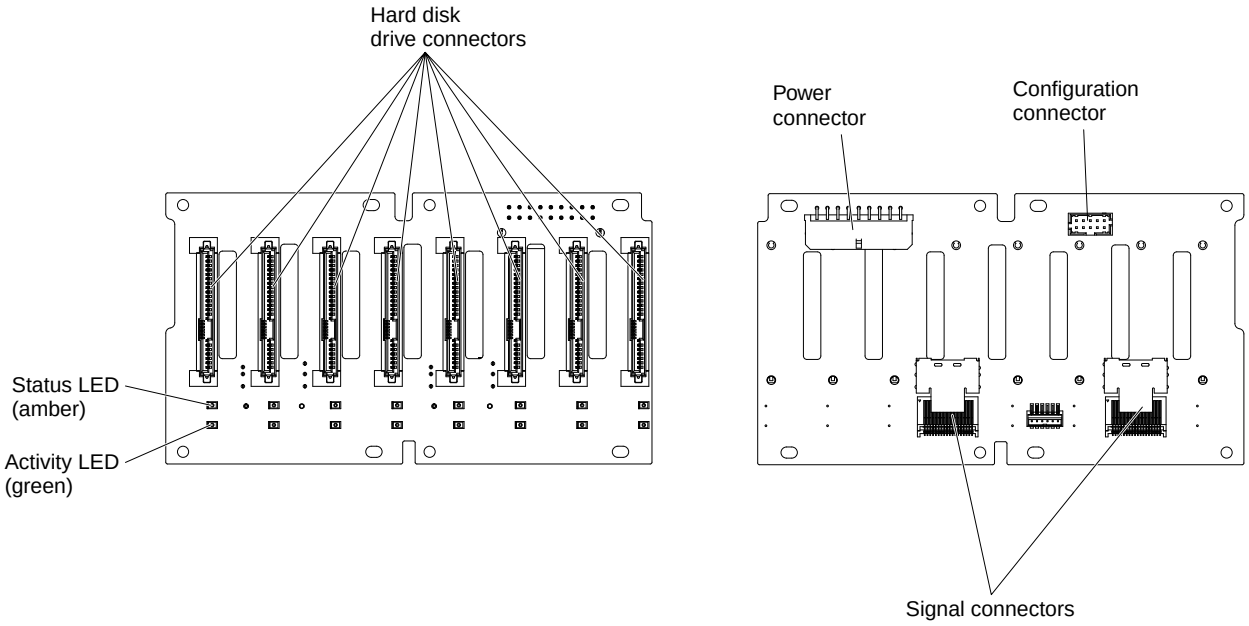



*Figure 17. Connectors on the 2.5-inch hard disk drive backplane*

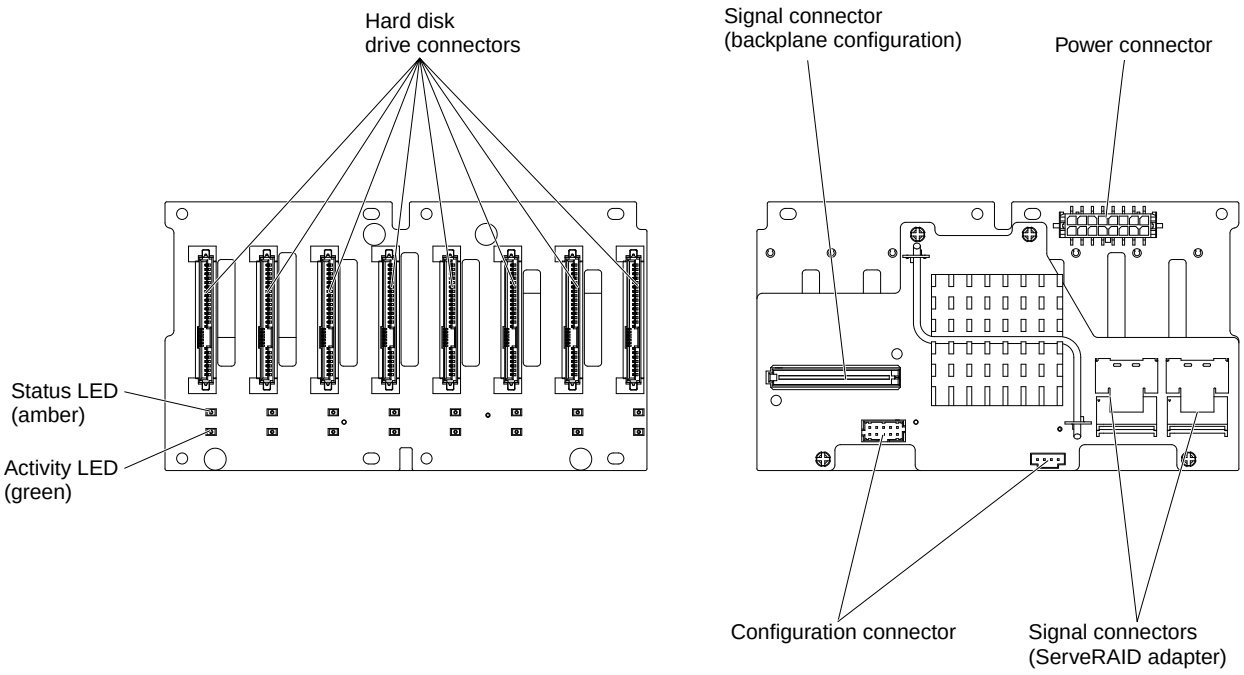



*Figure 18. Connectors on the 2.5-inch hard disk drive backplane with the expander*

## Installation guidelines

Use the installation guidelines to install the Lenovo System x3500 M4 Type 7383.

**Attention:** Static electricity that is released to internal server components when the server is powered-on might cause the system to halt, which might result in the loss of data. To avoid this potential problem, always use an electrostatic-discharge wrist strap or other grounding system when removing or installing a hot-swap device.

Before you install optional devices, read the following information:

- Read the safety information in “Safety” on page v and the guidelines in “Working inside the server with the power on” on page 37, and “Handling static-sensitive devices” on page 37. This information will help you work safely.
- Make sure that the devices that you are installing are supported. For a list of supported optional devices for the server, see http://www.lenovo.com/ serverproven/.
- When you install your new server, take the opportunity to download and apply the most recent firmware updates. This step will help to ensure that any known issues are addressed and that your server is ready to function at maximum levels of performance. To download firmware updates for your server, go to http://www.ibm.com/support/ fixcentral.

  **Important:** Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.

  For additional information about tools for updating, managing, and deploying firmware, see the ToolsCenter for System x and BladeCenter at https://support.lenovo.com/us/en/ documents/LNVO-CENTER
- Before you install optional hardware, make sure that the server is working correctly. Start the server, and make sure that the operating system starts, if an operating system is installed, or that a 19990305 error code is displayed, indicating that an operating system was not found but the server is otherwise working

correctly. If the server is not working correctly, see “Running DSA Preboot diagnostic programs” on page 145 for information about how to run diagnostics.

- Observe good housekeeping in the area where you are working. Place removed covers and other parts in a safe place.
- Do not attempt to lift an object that you think is too heavy for you. If you have to lift a heavy object, observe the following precautions:
  - Make sure that you can stand safely without slipping.
  - Distribute the weight of the object equally between your feet.
  - Use a slow lifting force. Never move suddenly or twist when you lift a heavy object.
  - To avoid straining the muscles in your back, lift by standing or by pushing up with your leg muscles.
- Make sure that you have an adequate number of properly grounded electrical outlets for the server, monitor, and other devices.
- Back up all important data before you make changes to disk drives.
- Have a small flat-blade screwdriver available.
- To view the error LEDs on the system board and internal components, leave the server connected to power.
- You do not have to turn off the server to install or replace hot-swap power supplies, hot-swap fans, or hot-plug Universal Serial Bus (USB) devices. However, you must turn off the server before you perform any steps that involve removing or installing adapter cables and you must disconnect the power source from the server before you perform any steps that involve removing or installing a riser card.
- Blue on a component indicates touch points, where you can grip the component to remove it from or install it in the server, open or close a latch, and so on.
- Orange on a component or an orange label on or near a component indicates that the component can be hot-swapped, which means that if the server and operating system support hot-swap capability, you can remove or install the component while the server is running. (Orange can also indicate touch points on hot-swap components.) See the instructions for removing or installing a specific hot-swap component for any additional procedures that you might have to perform before you remove or install the component.
- When you are finished working on the server, reinstall all safety shields, guards, labels, and ground wires.

## System reliability guidelines

The system reliability guidelines to ensure proper system cooling.

To help ensure proper system cooling and system reliability, make sure that the following requirements are met:

- Each of the drive bays has a drive or a filler panel and electromagnetic compatibility (EMC) shield installed in it.
- If the server has redundant power, each of the power-supply bays has a power supply installed in it.
- There is adequate space around the server to allow the server cooling system to work properly. Leave approximately 50 mm (2.0 in.) of open space around the front and rear of the server. Do not place objects in front of the fans. For proper cooling and airflow, replace the server cover before you turn on the server. Operating the server for extended periods of time (more than 30 minutes) with the server cover removed might damage server components.
- You have followed the cabling instructions that come with optional adapters.
- You have replaced a failed fan within 48 hours.
- You have replaced a hot-swap drive within 2 minutes of removal.

- You do not operate the server without the air baffle or the fan filler installed. Operating the server without the air baffle or the fan filler might cause the microprocessor to overheat.

  **Note:** The air baffle comes with the microprocessor 2 expansion board option.
- Microprocessor socket 2 always contains either a socket cover or a microprocessor and heat sink.
- You have installed the air baffle and fan 2 when you installed the microprocessor 2 expansion board option.

**Note:** Do not install the ServeRAID M5120 SAS/SATA adapter in slot 4, 7, and 8 for proper cooling.

## Working inside the server with the power on

Guidelines to work inside the server with the power on.

**Attention:** Static electricity that is released to internal server components when the server is powered-on might cause the server to halt, which might result in the loss of data. To avoid this potential problem, always use an electrostatic-discharge wrist strap or other grounding system when you work inside the server with the power on.

The server supports hot-plug, hot-add, and hot-swap devices and is designed to operate safely while it is turned on and the server cover is removed. Follow these guidelines when you work inside a server that is turned on:

**Note:** In order to work inside the server with the power on, you have to disable the power cut-off switch before removing the server cover.

- Avoid wearing loose-fitting clothing on your forearms. Button long-sleeved shirts before working inside the server; do not wear cuff links while you are working inside the server.
- Do not allow your necktie or scarf to hang inside the server.
- Remove jewelry, such as bracelets, necklaces, rings, and loose-fitting wrist watches.
- Remove items from your shirt pocket, such as pens and pencils, that could fall into the server as you lean over it.
- Avoid dropping any metallic objects, such as paper clips, hairpins, and screws, into the server.

## Handling static-sensitive devices

Use this information to handle static-sensitive devices.

**Attention:** Static electricity can damage the server and other electronic devices. To avoid damage, keep static-sensitive devices in their static-protective packages until you are ready to install them.

To reduce the possibility of damage from electrostatic discharge, observe the following precautions:

- Limit your movement. Movement can cause static electricity to build up around you.
- The use of a grounding system is recommended. For example, wear an electrostatic-discharge wrist strap, if one is available. Always use an electrostatic-discharge wrist strap or other grounding system when working inside the server with the power on.
- Handle the device carefully, holding it by its edges or its frame.
- Do not touch solder joints, pins, or exposed circuitry.
- Do not leave the device where others can handle and damage it.
- While the device is still in its static-protective package, touch it to an unpainted metal surface on the outside of the server for at least 2 seconds. This drains static electricity from the package and from your body.

- Remove the device from its package and install it directly into the server without setting down the device. If it is necessary to set down the device, put it back into its static-protective package. Do not place the device on the server cover or on a metal surface.
- Take additional care when handling devices during cold weather. Heating reduces indoor humidity and increases static electricity.

## Opening the bezel media door

Use this information to unlock the left-side cover to open or remove the bezel.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

To open the media door, complete the following steps.

Step 1. Check the status of the media door icon. If the icon on the side of the bezel is in the unlocked position, open the bezel media door directly.

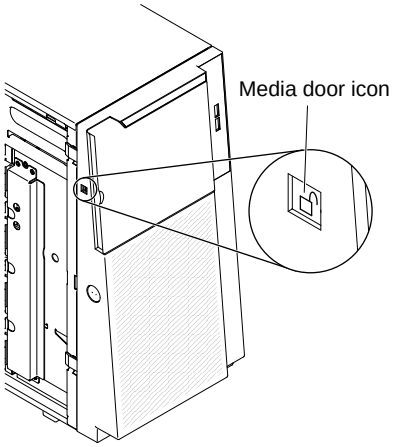



*Figure 19. Check status of media door icon*

Step 2. Unlock the left-side cover.

**Note:** You must unlock the left-side cover to open or remove the bezel. When you lock the left-side cover, it locks both the cover and the bezel.

Step 3. Open the bezel by pressing the button on the left edge of the bezel, and rotate the left side of the bezel away from the server.

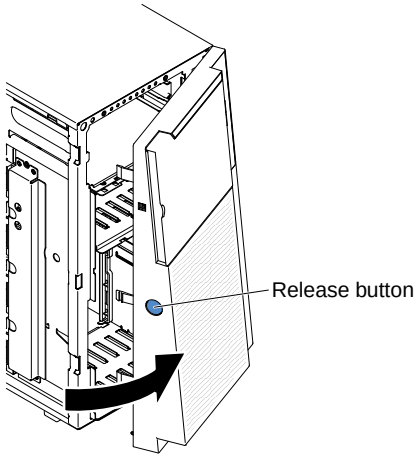



*Figure 20. Open the bezel*

Step 4. From inside of the top section of the bezel door, slide the blue tab up to unlock the bezel media door; then, grasp the depressed area on the media door and pull the door open.

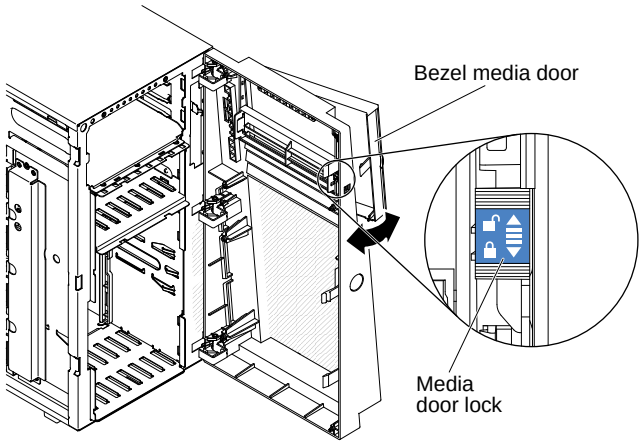



*Figure 21. Slide blue tab to unlock bezel media door*

Step 5. When the media door is unlocked, the icon on the side of the bezel will be in the unlocked position.

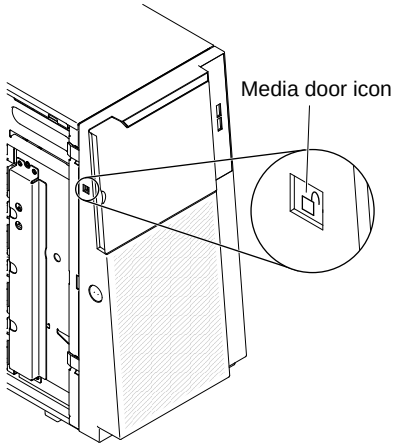



*Figure 22. Media door icon in unlocked position*

## Removing the left-side cover

Use this information to unlock and remove the left-side cover by using the key that comes with the server.

**Important:** Before you install optional hardware devices, make sure that the server is working correctly. Start the server and make sure that the operating system starts, if an operating system is installed, or that a 19990305 error code is displayed, indicating that an operating system was not found but the server is otherwise working correctly. If the server is not working correctly, see “Running DSA Preboot diagnostic programs” on page 145 for information about how to run diagnostics.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

**Attention:** The server automatically powers off when the left-side cover is removed.

To remove the left-side cover, complete the following steps.

Step 1. Unlock the left-side cover, using the key that comes with the server.

Step 2. Pull the cover-release latch down while you rotate the top edge of the cover away from the server; then, lift the cover off the server.

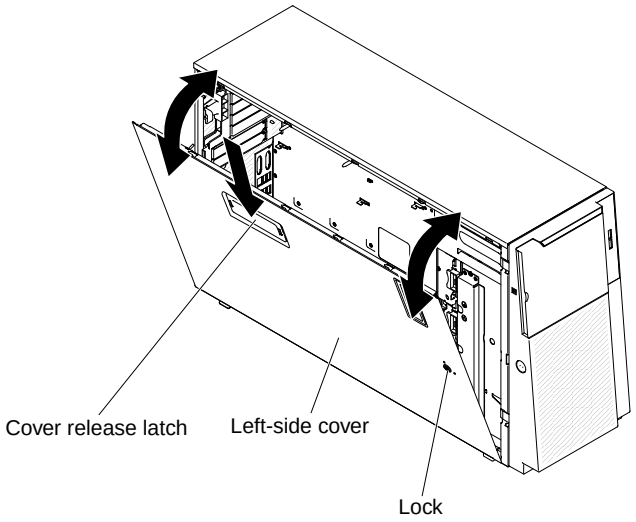



*Figure 23. Left-side cover removal*

## Removing the air baffle

Use this information to remove the air baffle from the server.

**Note:** When you install the second microprocessor, you must also install fan 2 and the air baffle that come with the second microprocessor upgrade kit.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove the air baffle, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 40).

Step 3. Remove the air baffle from the server and set it aside.

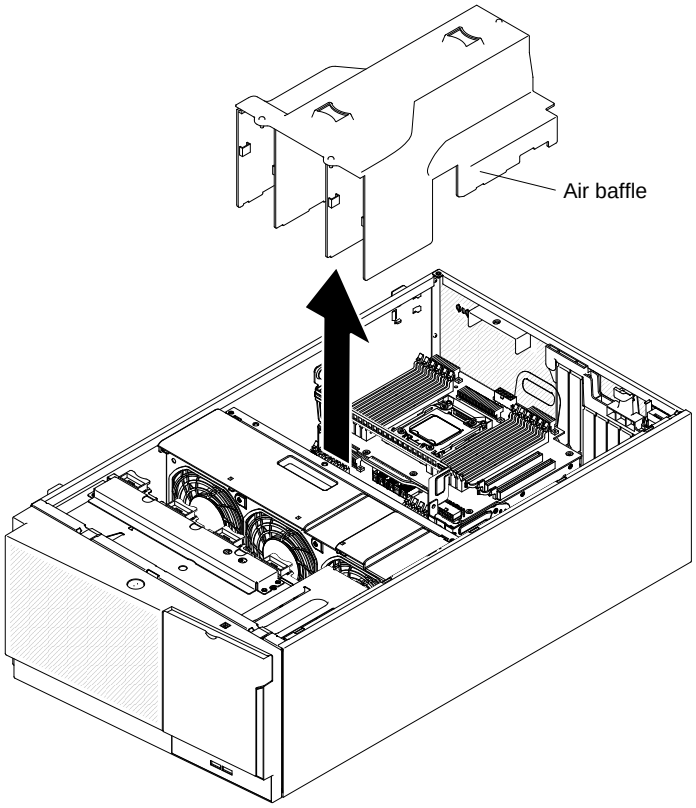



*Figure 24. Air baffle removal*

**Attention:** For proper cooling and airflow, replace the air baffle before you turn on the server. Operating the server with the air baffle removed might damage server components when two microprocessors installed.

## Removing the fan cage assembly

Use this information to remove the fan cage assembly from the server.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove the fan cage assembly, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 40).

Step 3. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 4. Remove all long cards from the system board.

Step 5. Disconnect the fan cage power cable from the system board (see “Internal cable routing and connectors” on page 312).

Step 6. Loosen the thumb screw on the fan cage release latch.

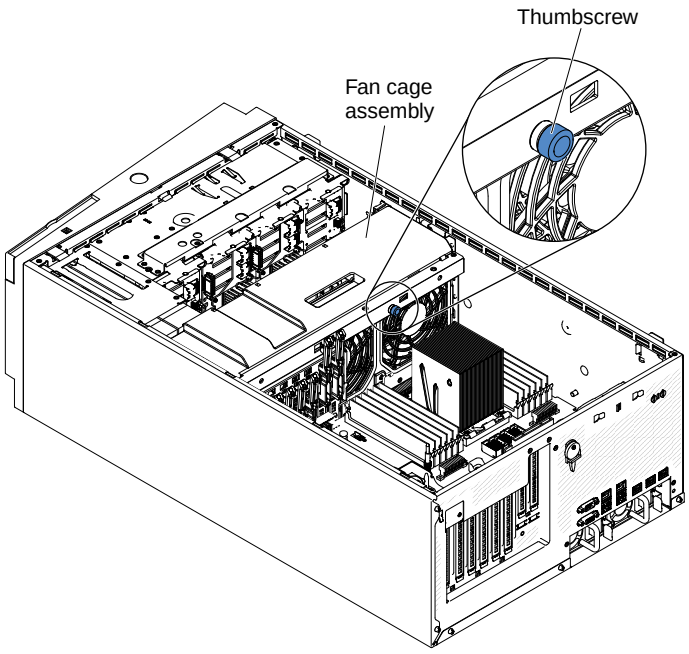



*Figure 25. Loosen thumb screw on fan cage*

Step 7. Rotate the fan cage release latch to the open position. The fan cage will lift up slightly when the release latch is fully open.

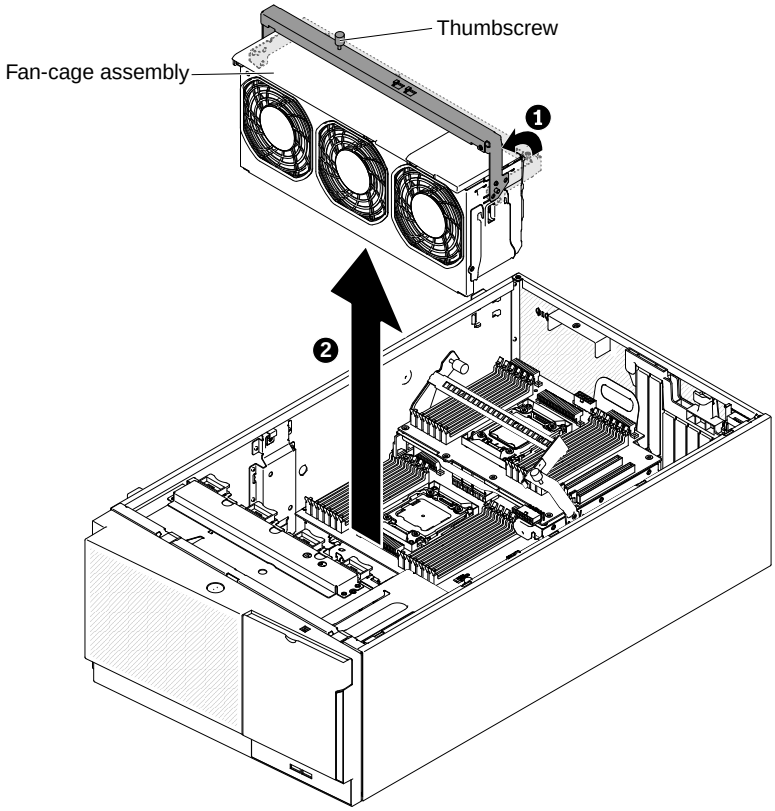



*Figure 26. Fan cage removal*

Step 8. Grasp the fan cage assembly and lift it out of the server.

## Installing a simple-swap fan

Use this information to install a simple-swap fan in the server.

The server comes with two 120 mm x 38 mm simple-swap fans in the fan cage assembly. The following instructions can be used to install any simple-swap fan in the server.

**Notes:**

1. When you install the second microprocessor, you must also install fan 2 and the air baffle that come with the second microprocessor upgrade kit. The fan filler can only be removed when fan 2 is installed. Otherwise, the fan filler must be installed for proper cooling.

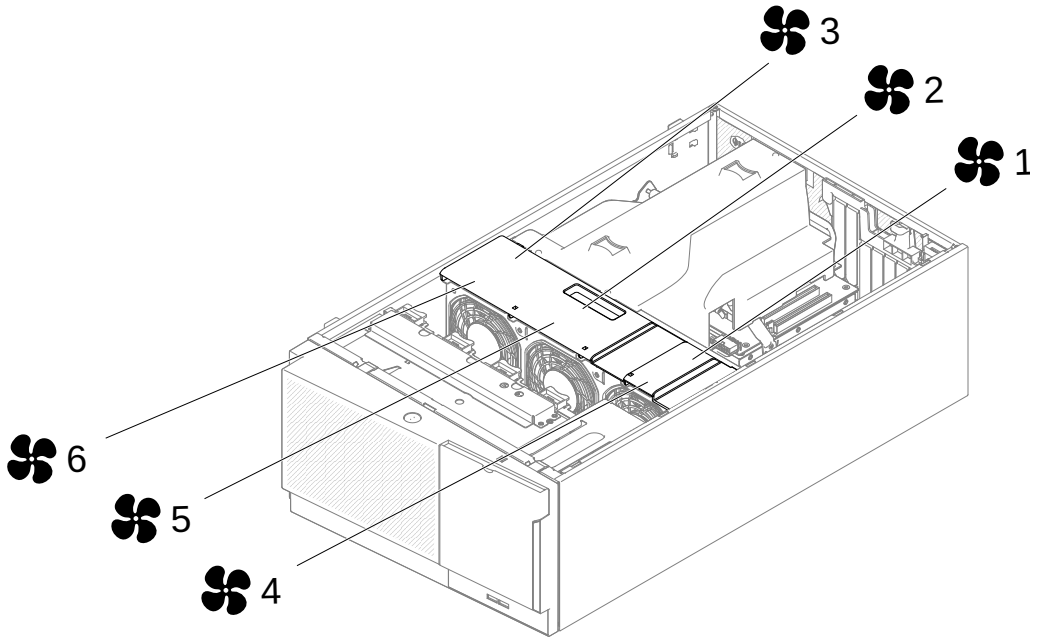



*Figure 27. The available fan sockets in the server*

2. You can order the three additional fans for redundant cooling.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

**Attention:** Static electricity that is released to internal server components when the server is powered-on might cause the server to halt, which might result in the loss of data. To avoid this potential problem, always use an electrostatic-discharge wrist strap or other grounding system when you work inside the server with the power on.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install a simple-swap fan, complete the following steps.

Step 1. Touch the static-protective package that contains the simple-swap fan to any unpainted metal surface on the server; then, remove the fan from the package.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 40).

Step 3. Open the fan cage cover.

Step 4. Perform the following steps only if you want to install the simple swap fan in the Fan 2 compartment:

a. Unfasten and open the release lever (see “Removing the fan cage assembly” on page 272).

b. Press and release the clip on the fan filler to remove the fan filler from the server.

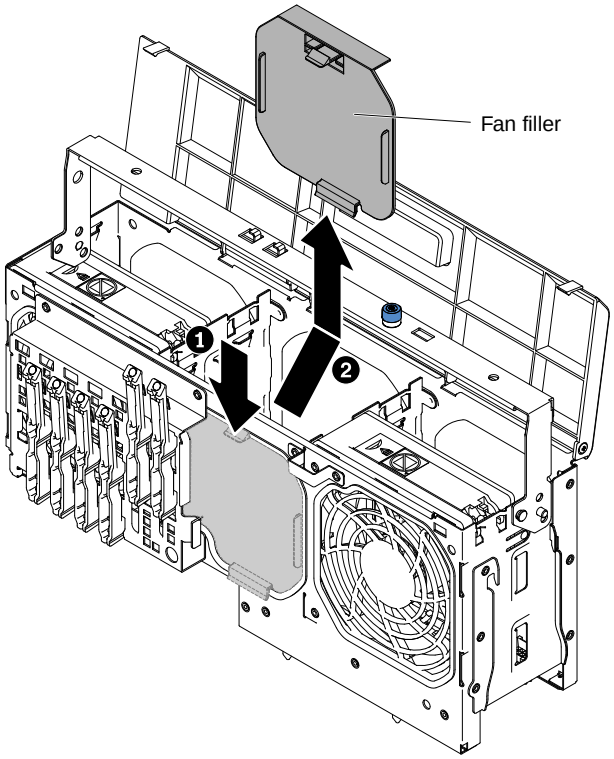



*Figure 28. Fan filler removal*

c. Close and fasten the release lever.

Step 5. Open the fan-locking handle on the replacement fan.

Step 6. Insert the fan into the socket and close the handle to the locked position.

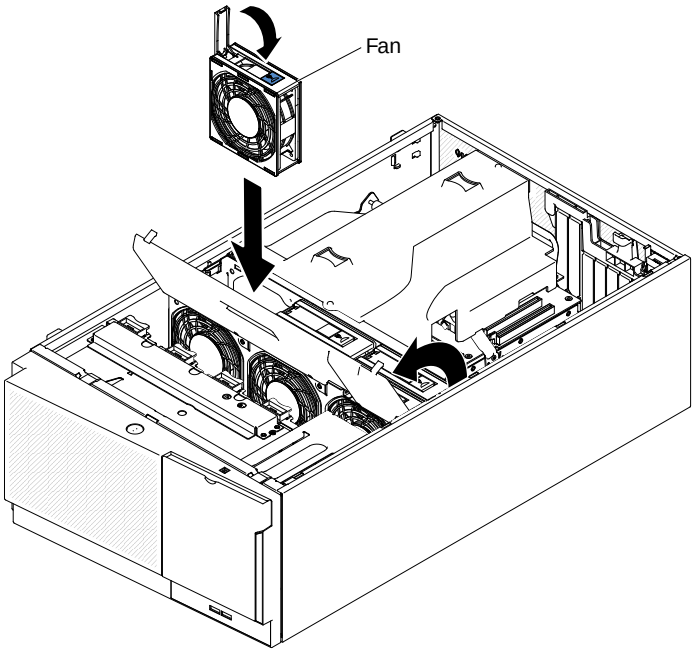



*Figure 29. Insert fan into the socket*

Step 7. Close the fan cage cover.

Step 8. Install and lock the left-side cover (see “Replacing the left-side cover” on page 99).

If you have other devices to install or remove, do so now.

## Hard disk drive installation

The following illustrations show the location of the drive bays in the server. Your hardware might differ, depending on the model.

Depending on the server model, the server might come with a SATA attached DVD-ROM drive in bay 1.

**Note:** If the server is configured for RAID operation using a ServeRAID adapter, you might have to reconfigure your disk arrays after you install drives. See the ServeRAID adapter documentation for additional information about RAID operation and complete instructions for using the ServeRAID adapter.

The following illustrations show the location of the drive bays in the 2.5-inch hot-swap SAS or hot-swap SATA hard disk drive server models.

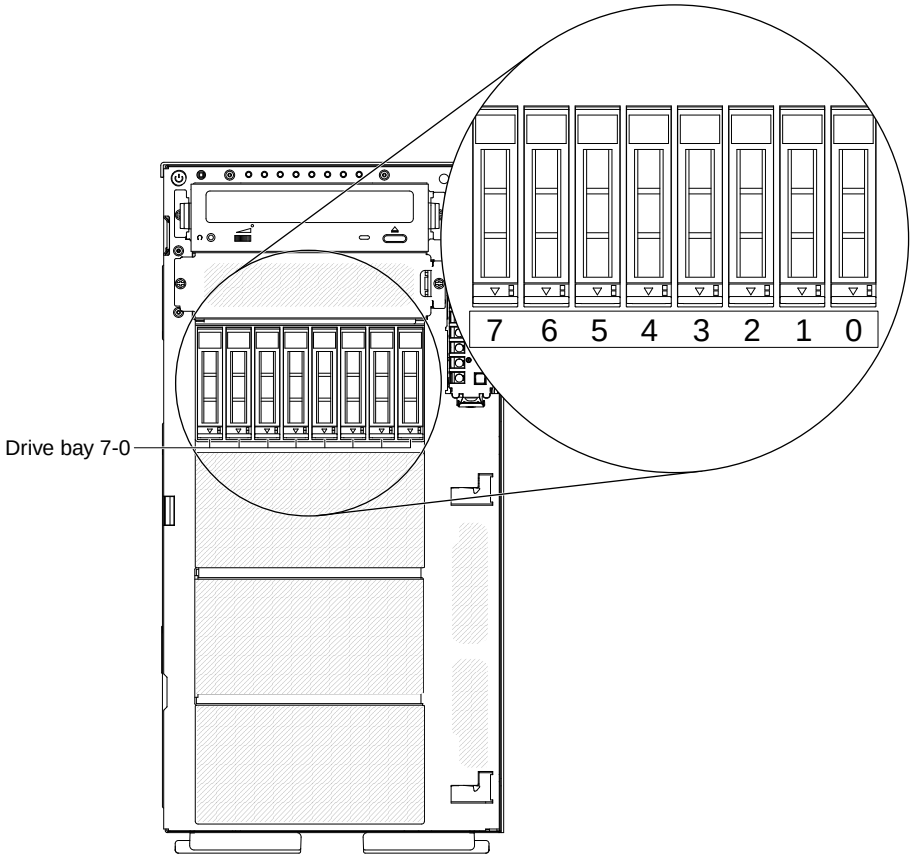



*Figure 30. Server with eight 2.5-inch hard disk drives*

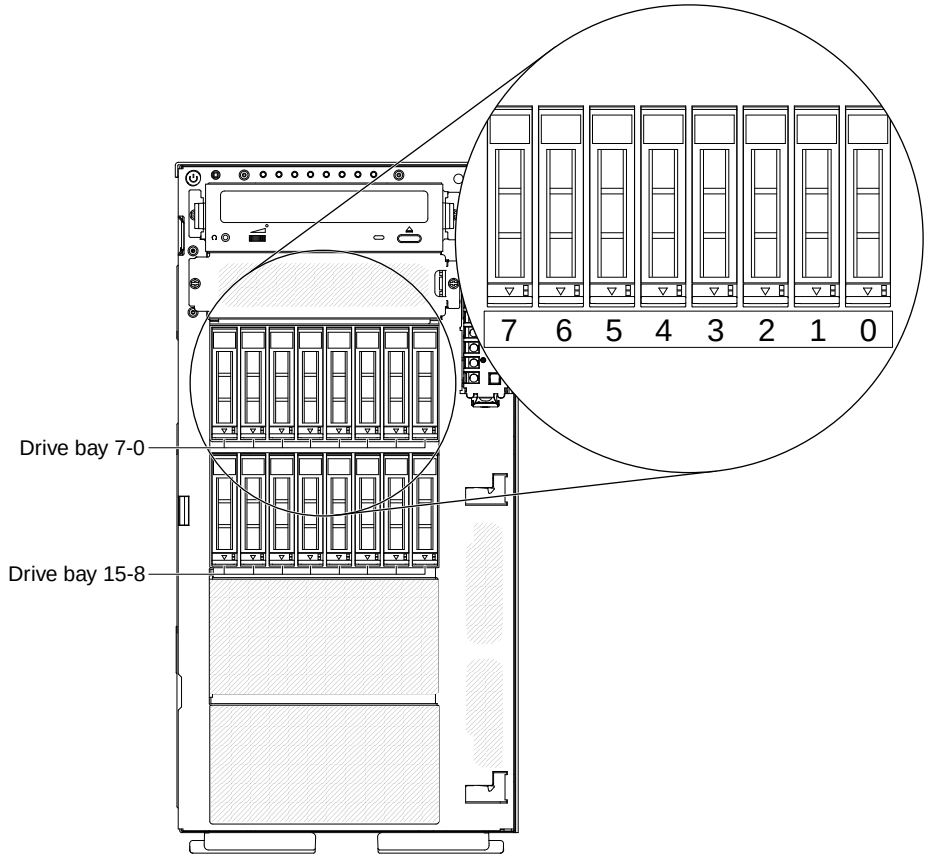



*Figure 31. Server with sixteen 2.5-inch hard disk drives*

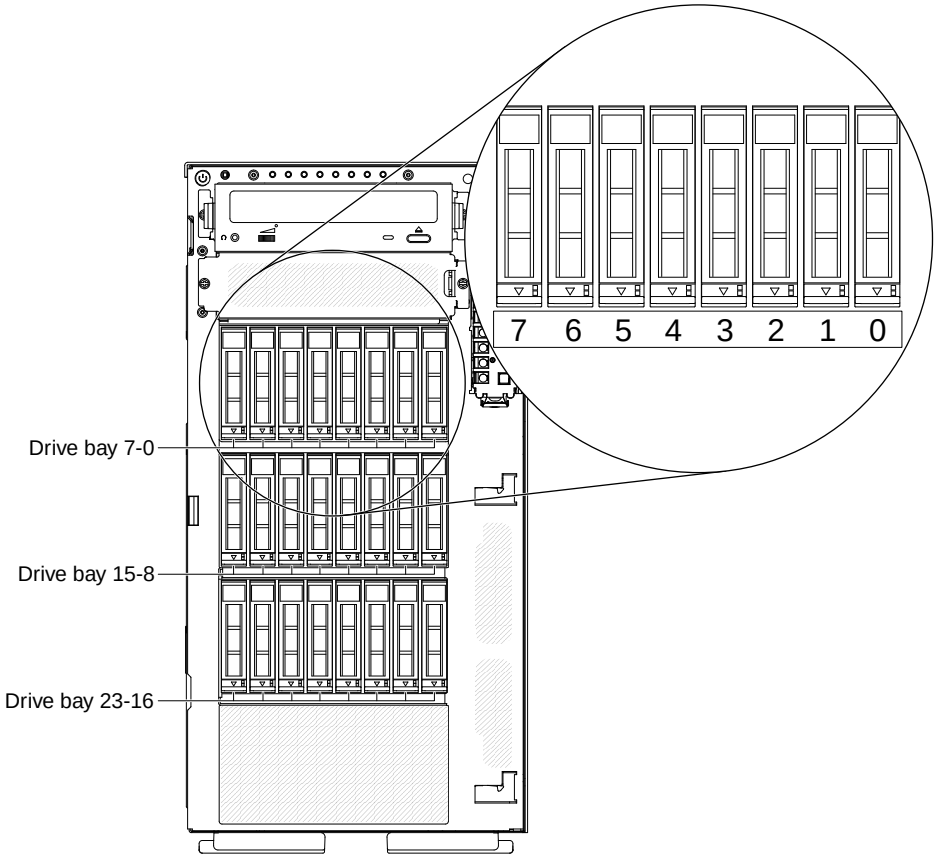



*Figure 32. Server with twenty-four 2.5-inch hard disk drives*

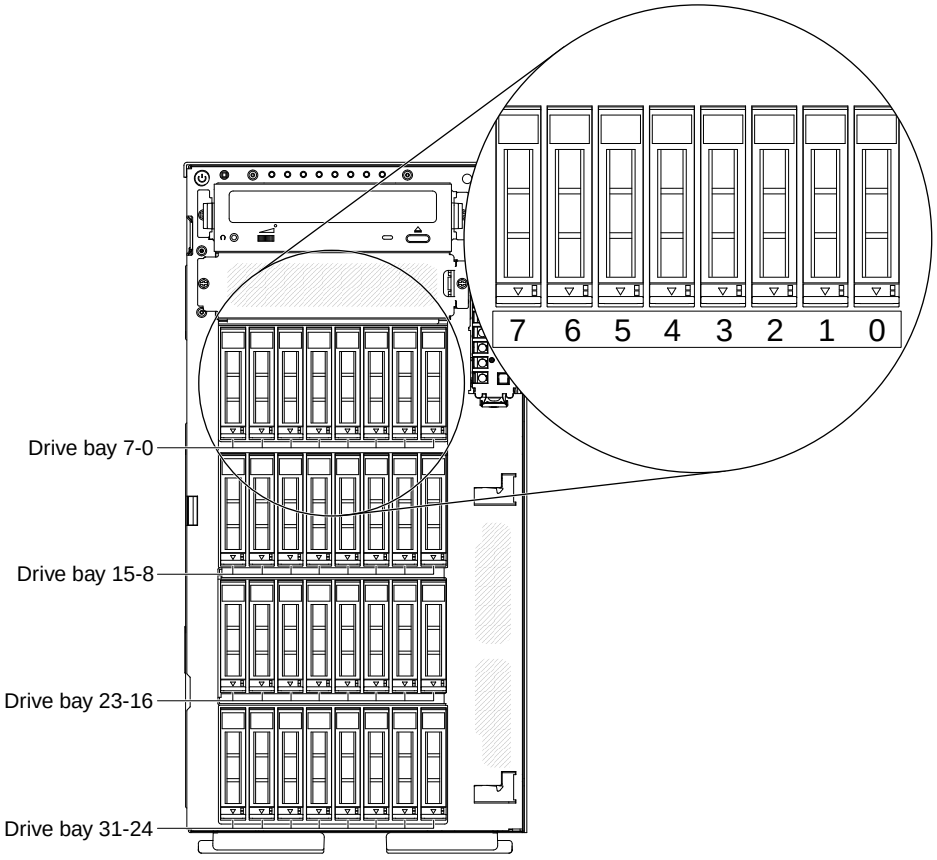



*Figure 33. Server with thirty-two 2.5-inch hard disk drives*

The following illustrations show the location of the drive bays in the 3.5-inch hot-swap SAS or hot-swap SATA hard disk drive server models.

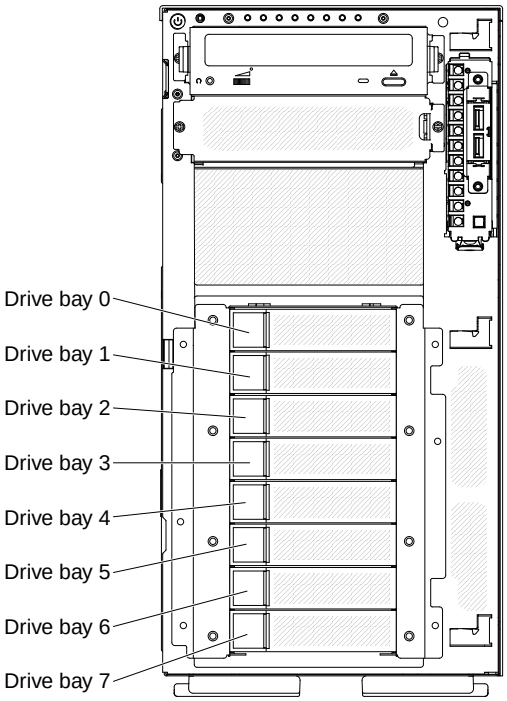



*Figure 34. Server with eight 3.5-inch hard disk drives*

The following illustrations show the location of the drive bays in the 2.5-inch and 3.5-inch hot-swap SAS or hot-swap SATA hard disk drive server models.

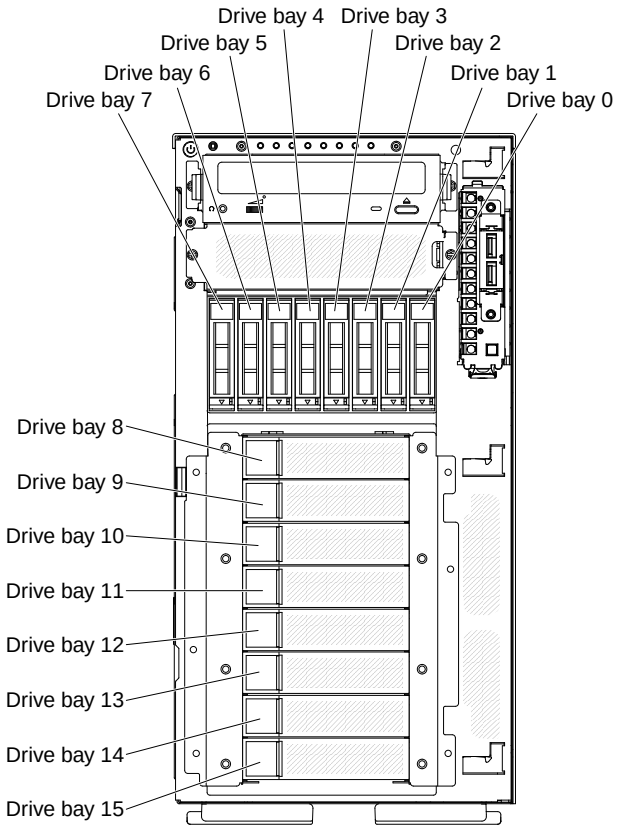



*Figure 35. Server with eight 2.5-inch hard disk drives and eight 3.5-inch hard disk drives*

The following notes describe the types of drives that the server supports and other information that you must consider when installing a drive:

- Make sure that you have all the cables and other equipment that is specified in the documentation that comes with the drive.
- Check the instructions that come with the drive to see whether you have to set any switches or jumpers on the drive. If you are installing a SAS or SATA device, be sure to set the SAS or SATA ID for that device.
- Optional external tape drives and DVD-ROM drives are examples of removable-media drives. You can install removable-media drives only in bays 1 and 2 on models with eight 3.5-inch, eight, sixteen, twenty-four, and thirty-two 2.5-inch hard disk drives.
- The electromagnetic interference (EMI) integrity and cooling of the server are protected by having all bays and PCI slots covered or occupied. When you install a drive or PCI adapter, save the EMC shield and filler panel from the bay or the PCI adapter slot cover in the event that you later remove the drive or adapter.
- For a complete list of supported options for the server, see http://www.lenovo.com/ serverproven/.

## Installing a 2.5-inch hot-swap hard disk drive

Use this information to install a 2.5-inch hot-swap hard disk drive.

The following notes describe the types of hard disk drives that the server supports and other information that you must consider when you install a hard disk drive:

- Depending on the model, the server supports up to eight or up to thirty-two 2.5-inch SAS/SATA hot-swap hard disk drives in the hot-swap bays.

**Note:** When using ServeRAID adapter M1015 to support more than sixteen 2.5-inch hard disk drives, the maximum number of RAID supported drives is 16. All the other drives will remain JBOD (the drives are presented to the operating system without a RAID configuration).

- For a list of supported optional devices for the server, see http://www.lenovo.com/ serverproven/.
- Inspect the drive and drive bay for signs of damage.
- Make sure that the drive is correctly installed in the drive bay.
- See the documentation for the ServeRAID adapter for instructions for installing a hard disk drive.
- All hot-swap drives in the server must have the same throughput speed rating; using drives with different speed ratings might cause all drives to operate at the speed of the slowest drive.
- You do not have to turn off the server to install hot-swap drives in the hot-swap drive bays. However, you must turn off the server when you perform any steps that involve installing or removing cables.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

**Attention:** Static electricity that is released to internal server components when the server is powered-on might cause the server to halt, which might result in the loss of data. To avoid this potential problem, always use an electrostatic-discharge wrist strap or other grounding system when you work inside the server with the power on.

To install a 2.5-inch hot-swap hard disk drive, complete the following steps.

Step 1. Unlock the left-side cover.

**Note:** You must unlock the left-side cover to open or remove the bezel. When you lock the left-side cover, it locks both the cover and the bezel.

Step 2. Open the bezel (see “Opening the bezel media door” on page 38).

Step 3. Remove the filler panel, if one is present.

Step 4. Touch the static-protective package that contains the disk drive to any unpainted metal surface on the server; then, remove the disk drive from the package.

Step 5. Make sure that the tray handle is open; then, install the hard disk drive into the hot-swap bay.

Step 6. Rotate the drive handle down until the drive is seated in the hot-swap bay and the release latch clicks into place.

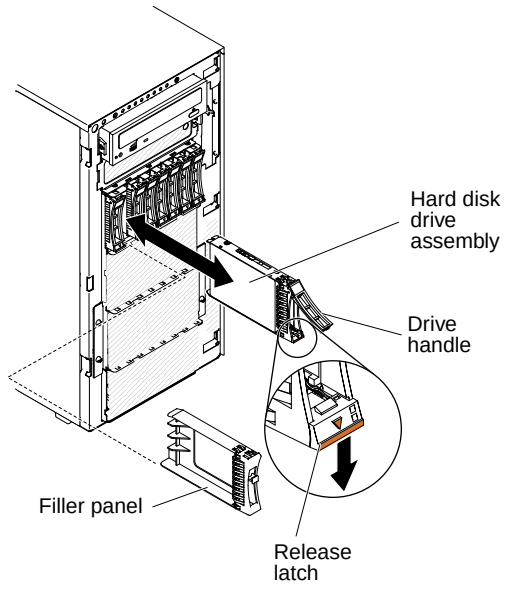



*Figure 36. Hot-swap hard disk drive installation*

**Notes:**

1. After you install the hard disk drive, check the disk drive status LEDs to verify that the hard disk drive is operating correctly. If the yellow hard disk drive status LED is lit continuously, that drive is faulty and must be replaced. If the green hard disk drive activity LED is flashing, the drive is being accessed.
2. If the server is configured for RAID operation through an optional ServeRAID adapter, you might have to reconfigure your disk arrays after you install hard disk drives. See the ServeRAID documentation on the *Lenovo ServeRAID Support* CD for additional information about RAID operation and complete instructions for using ServeRAID manager.

Step 7. Close the bezel (see “Closing the bezel media door” on page 183).

Step 8. Lock the left-side cover.

## Installing a 3.5-inch hot-swap hard disk drive

Use this information to install a 3.5-inch hot-swap SAS/SATA hard disk drive.

Before installing a 3.5-inch hot-swap hard disk drive, read the following information:

- Inspect the drive tray for signs of damage.
- To maintain proper system cooling, do not operate the server for more than 10 minutes without either a drive or a filler panel installed in each drive bay.
- You do not have to turn off the server to install hot-swap drives in the hot-swap drive bays.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

To install a 3.5-inch hot-swap SAS/SATA hard disk drive, complete the following steps.

Step 1. Unlock the left-side cover.

**Note:** You must unlock the left-side cover to open or remove the bezel. When you lock the left-side cover, it locks both the cover and the bezel.

Step 2. Open the bezel (see “Opening the bezel media door” on page 38).

Step 3. Remove the filler panel, if one is present.

Step 4. Touch the static-protective package that contains the disk drive to any unpainted metal surface on the server; then, remove the disk drive from the package and place it on a static-protective surface.

Step 5. Make sure that the drive tray handle is in the open position.

Step 6. Align the drive assembly with the guide rails in the bay; then, carefully slide the drive assembly into the drive bay until the drive snaps into place.

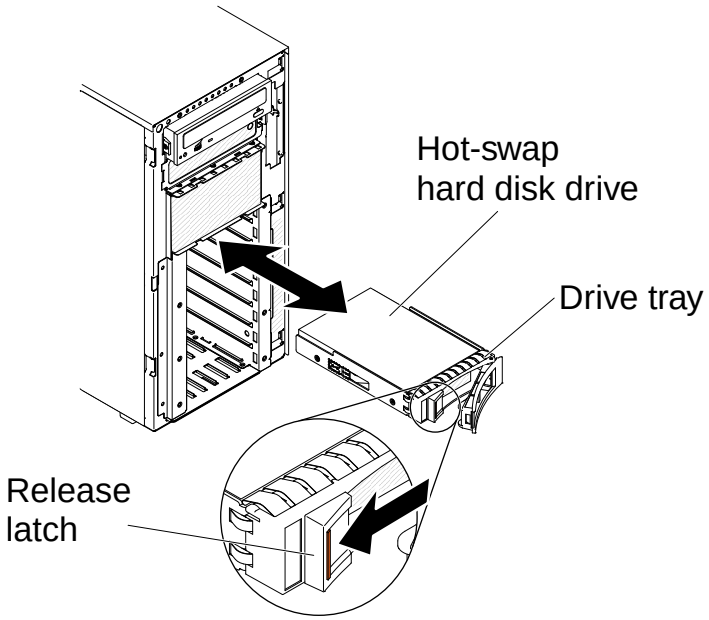



*Figure 37. Hot-swap hard disk drive installation*

Step 7. Rotate the drive tray handle to the closed position.

Step 8. Check the hard disk drive status indicator to make sure that the hard disk drive is operating correctly. After you replace a failed hard disk drive, the green activity LED flashes as the disk spins up. The yellow LED turns off after approximately 1 minute. If the new drive starts to rebuild, the yellow LED flashes slowly, and the green activity LED remains lit during the rebuild process. If the yellow LED remains lit, see the “Hard disk drive problems” on page 149 for more information.

**Note:** You might have to reconfigure the disk arrays after you install hard disk drives. See the RAID documentation on the Lenovo website at http://www.lenovo.com/support for information about RAID adapters.

If you have other devices to install or remove, do so now.

## Installing a 3.5-inch simple-swap hard disk drive

Use this information to install a 3.5-inch simple-swap hard disk drive.

Before installing a 3.5-inch simple-swap hard disk drive, read the following information:

- Inspect the drive tray for signs of damage.
- To maintain proper system cooling, do not operate the server for more than 10 minutes without either a drive or a filler panel installed in each drive bay.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install a 3.5-inch simple-swap hard disk drive, complete the following steps.

Step 1. Unlock the left-side cover.

**Note:** You must unlock the left-side cover to open or remove the bezel. When you lock the left-side cover, it locks both the cover and the bezel.

Step 2. Open the bezel (see “Opening the bezel media door” on page 38).

Step 3. Remove the filler panel, if one is present.

Step 4. Touch the static-protective package that contains the disk drive to any unpainted metal surface on the server; then, remove the disk drive from the package and place it on a static-protective surface.

Step 5. Grasp the black drive handle and slide the blue release latch to the right and align the drive assembly with the guide rails in the bay.

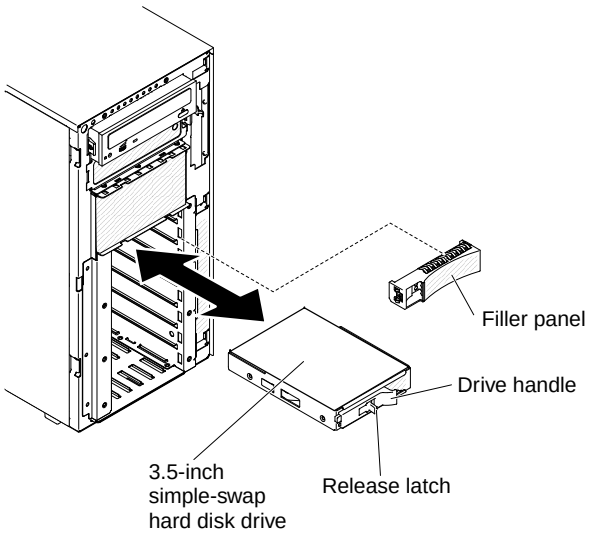



*Figure 38. Simple-swap hard disk drive installation*

Step 6. Gently push the drive into the bay until the drive stops.

If you have other devices to install or remove, do so now.

## Installing a DVD drive

Use this information to install a DVD drive.

If you are replacing a drive, make sure that:

- You have all the cables and other equipment that are specified in the documentation that comes with the new drive.
- You have checked the instructions that come with the new drive to determine whether you must set any switches or jumpers in the drive.

- You have removed the blue optical drive rails from the side of the old drive and have them available for installation on the new drive.

**Note:** If you are installing a drive that contains a laser, observe the following safety precautions.

**Statement 3**

**CAUTION:**
**When laser products (such as CD-ROMs, DVD drives, fiber optic devices, or transmitters) are installed, note the following:**

- **Do not remove the covers. Removing the covers of the laser product could result in exposure to hazardous laser radiation. There are no serviceable parts inside the device.**
- **Use of controls or adjustments or performance of procedures other than those specified herein might result in hazardous radiation exposure.**

**DANGER**

**Some laser products contain an embedded Class 3A or Class 3B laser diode.**

**Note the following. Laser radiation when open. Do not stare into the beam, do not view directly with optical instruments, and avoid direct exposure to the beam.**

Class 1 Laser Product
Laser Klasse 1
Laser Klass 1
Luokan 1 Laserlaite
Appareil À Laser de Classe 1

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install the DVD drive, complete the following steps.

Step 1. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 40).

Step 2. Open the bezel (see “Opening the bezel media door” on page 38).

Step 3. Remove the air baffle if installed (see “Removing the air baffle” on page 189).

Step 4. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 5. Touch the static-protective package that contains the DVD drive to any unpainted metal surface on the server; then, remove the DVD drive from the package.

Step 6. Install the blue rails on the DVD drive, using the holes nearest the center of the drive.

Step 7. Follow the instructions that come with the drive to set jumpers or switches, if there is any.

**Note:** You might find it easier to install the new drive from the front and then attach the cables.

Step 8. Align the rails on the DVD drive with the guides in the drive bay; then, slide the DVD drive into the drive bay until the rails click into place.

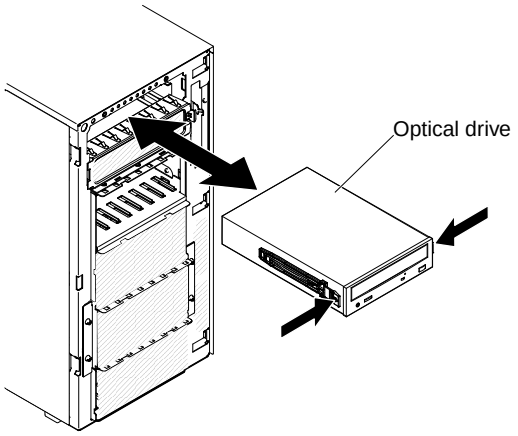



*Figure 39. Slide the DVD drive into the drive bay*

Step 9. Connect power and signal cables to the drive and the connectors on the system board (see “Internal cable routing and connectors” on page 312 for more information).

If you have other devices to install or remove, do so now.

## Installing an optional tape drive

Use this information to install an optional tape drive.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install an optional full-height tape drive, complete the following steps.

Step 1. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 40).

Step 2. Open the bezel (see “Opening the bezel media door” on page 38).

Step 3. Remove the air baffle if installed (see “Removing the air baffle” on page 189).

Step 4. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 5. Remove the EMC shields from the drive bay, if installed.

Step 6. Touch the static-protective package that contains the tape drive to any unpainted metal surface on the server; then, remove the tape drive from the package.

Step 7. Install the blue rails on the tape drive.

Step 8. Follow the instructions that come with the drive to set jumpers or switches, if there is any.

**Note:** You might find it easier to install the new drive from the front and then attach the cables.

Step 9. Align the rails on the tape drive with the guides in the drive bay; then, slide the tape drive into the drive bay until the rails click into place.

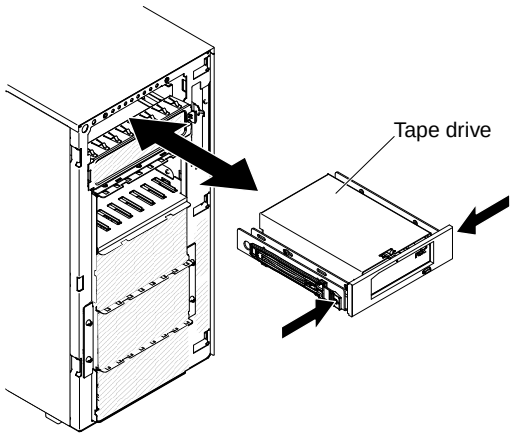



*Figure 40. Slide the tape drive into the drive bay*

Step 10. Connect the power and signal cables to the drive and the connectors on the system board (see "Internal cable routing and connectors" on page 312 for more information).

If you have other devices to install or remove, do so now.

## Memory module installation

The following notes describe the types of DIMMs that the server supports and other information that you must consider when you install DIMMs.

- When you install or remove DIMMs, the server configuration information changes. When you restart the server, the system displays a message that indicates that the memory configuration has changed.
- The server supports only industry-standard double-data-rate 3 (DDR3), 800, 1066, 1333, 1600, or 1866 MHz, PC3-6400, PC3-8500, PC3-10600, PC3-12800, or PC3-14900 registered or unbuffered, synchronous dynamic random-access memory (SDRAM) dual inline memory modules (DIMMs) with error correcting code (ECC). See http://www.lenovo.com/ serverproven/ for a list of supported memory modules for the server.
  - The specifications of a DDR3 DIMM are on a label on the DIMM, in the following format.
  - *gggggeRxff* PC3*v-wwwwwm-aa-bb-ccd*where:
    - *gggggg* is the total capacity of the DIMM (for example, 1GB, 2GB, or 4GB)
    - *eR* is the number of ranks
      - 1R = single-rank
      - 2R = dual-rank
      - 4R = quad-rank
    - *xff* is the device organization (bit width)
      - x4 = x4 organization (4 DQ lines per SDRAM)
      - x8 = x8 organization
      - x16 = x16 organization
    - *v* is the SDRAM and support component supply voltage (VDD)

- Blank = 1.5 V specified
- L = 1.35 V specified, 1.5 V operable

  **Note:** Values for these voltages are 'specified' which means the device characteristics such as timing are supported at this voltage. Values are 'operable' which means that the devices can be operated safely at this voltage. However, device characteristics such as timing may not be guaranteed. All devices must be 'tolerant' of the highest DDR3 nominal voltage of 1.5 V, meaning that they may not operate at 1.5 V but may be powered at that voltage without damage to the devices.

- *wwwww* is the DIMM bandwidth, in MBps
  - 6400 = 6.40 GBps (DDR3-800 SDRAMs, 8-byte primary data bus)
  - 8500 = 8.53 GBps (DDR3-1066 SDRAMs, 8-byte primary data bus)
  - 10600 = 10.66 GBps (DDR3-1333 SDRAMs, 8-byte primary data bus)
  - 12800 = 12.80 GBps (DDR3-1600 SDRAMs, 8-byte primary data bus)
  - 14900 = 14.93 GBps (DDR3-1866 SDRAMs, 8-byte primary data bus)
- *m* is the DIMM type
  - E = Unbuffered DIMM (UDIMM) with ECC (x72-bit module data bus)
  - L = Load Reduction DIMM (LRDIMM)
  - R = Registered DIMM (RDIMM)
  - U = Unbuffered DIMM with no ECC (x64-bit primary data bus)
- *aa* is the CAS latency, in clocks at maximum operating frequency
- *bb* is the JEDEC SPD Revision Encoding and Additions level
- *cc* is the reference design file for the design of the DIMM
- *d* is the revision number of the reference design of the DIMM

**Note:** To determine the type of a DIMM, see the label on the DIMM. The information on the label is in the format xxxxx nRxxx PC3v-xxxxxx-xx-xx-xxx. The numeral in the sixth numerical position indicates whether the DIMM is single-rank (n=1), dual-rank (n=2), or quad-rank (n=4).

- The following rules apply to DDR3 RDIMM speed as it relates to the number of RDIMMs in a channel:
  - When you install 1 RDIMM per channel, the memory runs at 1866 MHz
  - When you install 2 RDIMMs per channel, the memory runs at 1600 MHz
  - When you install 3 RDIMMs per channel, the memory runs at 1066 MHz
  - All channels in a server run at the fastest common frequency
  - Do not install registered, unbuffered, and load reduction DIMMs in the same server
- The maximum memory speed is determined by the combination of the microprocessor, DIMM speed, DIMM type, Operating Modes in UEFI settings, and the number of DIMMs installed in each channel.
- In two-DIMM-per-channel configuration, a server with an Intel Xeon™ E5-2600 series microprocessor automatically operates with a maximum memory speed of up to 1600 MHz when the following condition is met:
  - Two 1.35 V single-rank, dual-rank, or quad-rank UDIMMs, RDIMMs or LRDIMMs are installed in the same channel. In the Setup utility, **Memory speed** is set to **Max performance** and **LV-DIMM power** is set to **Enhance performance** mode. The 1.35 V UDIMMs, RDIMMs or LRDIMMs will function at 1.5 V.
- The server supports a maximum of 16 dual-rank UDIMMs. The server supports up to two UDIMMs per channel.

- The server supports a maximum of 24 single-rank, dual-rank, or 16 quad-rank RDIMMs. The server does not support three quad-rank RDIMMs in the same channel.
- The following table shows an example of the maximum amount of memory that you can install using ranked DIMMs:

*Table 4. Maximum memory installation using ranked DIMMs*

| Number of DIMMs | DIMM type | DIMM size | Total memory |
|---|---|---|---|
| 16 | Single-rank UDIMMs | 2 GB | 32 GB |
| 24 | Single-rank RDIMMs | 2 GB | 48 GB |
| 24 | Single-rank RDIMMs | 4 GB | 96 GB |
| 24 | Dual-rank RDIMMs | 8 GB | 192 GB |
| 24 | Dual-rank RDIMMs | 16 GB | 384 GB |
| 16 | Quad-rank RDIMMs | 16 GB | 256 GB |
| 24 | Quad-rank LRDIMMs | 32 GB | 768 GB |

- The UDIMM option that is available for the server is 2 GB. The server supports a minimum of 2GB and a maximum of 32 GB of system memory using UDIMMs.
- The RDIMM options that are available for the server are 2 GB, 4 GB, 8 GB, and 16 GB. The server supports a minimum of 2 GB and a maximum of 384 GB of system memory using RDIMMs.
- The LRDIMM option that is available for the server is 32 GB. The server supports a minimum of 32 GB and a maximum of 768 GB of system memory using LRDIMMs.

  **Note:** The amount of usable memory is reduced depending on the system configuration. A certain amount of memory must be reserved for system resources. To view the total amount of installed memory and the amount of configured memory, run the Setup utility. For additional information, see “Configuring the server” on page 104.
- A minimum of one DIMM must be installed for each microprocessor. For example, you must install a minimum of two DIMMs if the server has two microprocessors installed. However, to improve system performance, install a minimum of four DIMMs for each microprocessor.
- DIMMs in the server must be the same type (RDIMM, UDIMM, or LRDIMM) to ensure that the server will operate correctly.
- When you install one quad-rank DIMM in a channel, install it in the DIMM connector furthest away from the microprocessor.
- For UDIMMs, DIMM connectors 3, 6, 7, and 10 for microprocessor 1 and DIMM connectors 15, 18, 19, and 22 for microprocessor 2 are not used.

**Note:** You can install DIMMs for microprocessor 2 as soon as you install microprocessor 2; you do not have to wait until all of the DIMM slots for microprocessor 1 are filled.

The following illustration shows the location of the DIMM connectors on they system board.

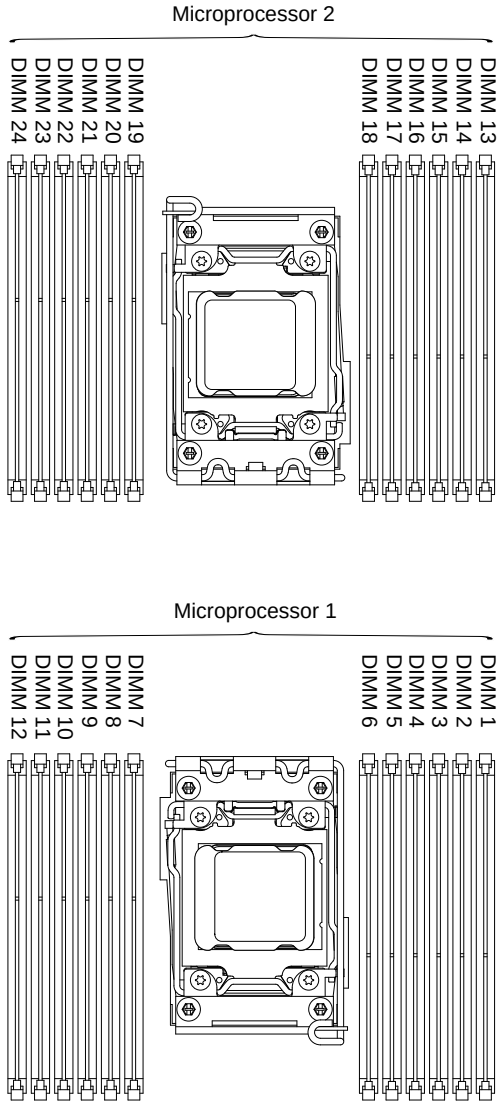



*Figure 41. The location of the DIMM connectors on the system board*

## DIMM installation sequence

Depending on the server model, the server may come with a minimum of one 2 GB or 4 GB DIMM installed in slot 1. When you install additional DIMMs, install them in the order shown in the following table to optimize system performance.

In general, all three channels on the memory interface for each microprocessor can be populated in any order and have no matching requirements.

*Table 5. Independent mode DIMM installation sequence*

| **Number of installed microprocessor** | **DIMM connector population sequence** |
|---|---|
| One microprocessor installed | 1, 4, 9, 12, 2, 5, 8, 11, 10, 7, 6, 3 |
| Two microprocessors installed | 1, 13, 4, 16, 9, 21, 12, 24, 2, 14, 5, 17, 8, 20, 11, 23, 22, 10, 19, 7, 18, 6, 15, 3 |

## Memory mirrored channel

Memory mirrored channel mode replicates and stores data on two pairs of DIMMs within two channels simultaneously. If a failure occurs, the memory controller switches from the primary pair of memory DIMMs to the backup pair of DIMMs.

You can enable memory mirrored in the Setup utility (see “Starting the Setup utility” on page 107).

When you use the memory mirrored channel feature, consider the following information:

- When you use memory mirrored channel, you must install a pair of DIMMs at a time. The two DIMMs in each pair must be identical in size, type, and rank (single, dual, or quad), and organization, but not in speed. The channels run at the speed of the slowest DIMM in any of the channels.
- The maximum available memory is reduced to half of the installed memory when memory mirrored is enabled. For example, if you install 64 GB of memory using RDIMMs, only 32 GB of addressable memory is available when you use memory mirrored channel.

The following diagram lists the DIMM connectors on each memory channel.

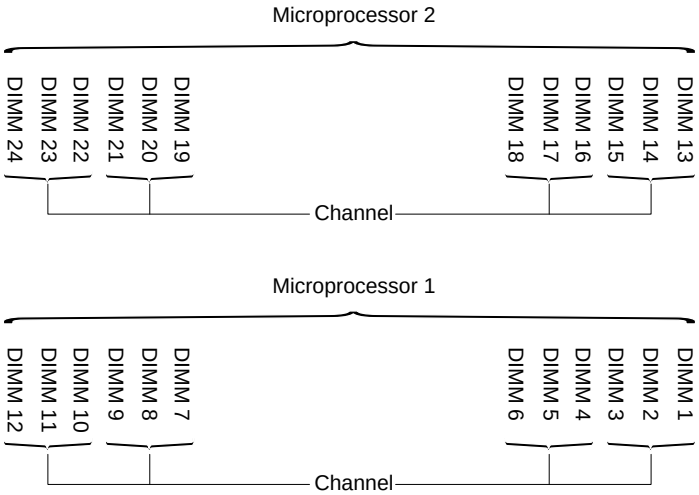



*Figure 42. Connectors on each memory channel*

**Note:** You can install DIMMs for microprocessor 2 as soon as you install microprocessor 2; you do not have to wait until all of the DIMM connectors for microprocessor 1 are filled.

The following table shows the installation sequence for memory mirrored mode:

*Table 6. Memory mirrored channel mode DIMM population sequence*

| Number of DIMMs | Number of installed microprocessor | DIMM connector |
|---|---|---|
| First pair of DIMMs | 1 | 1, 4 |
| Second pair of DIMMs | 1 | 9, 12 |
| Third pair of DIMMs | 1 | 2, 5 |
| Fourth pair of DIMMs | 1 | 8, 11 |
| Fifth pair of DIMMs | 1 | 7, 10 |
| Sixth pair of DIMMs | 1 | 3, 6 |

*Table 6. Memory mirrored channel mode DIMM population sequence (continued)*

| Number of DIMMs | Number of installed microprocessor | DIMM connector |
|---|---|---|
| Seventh pair of DIMMs | 2 | 13, 16 |
| Eighth pair of DIMMs | 2 | 21, 24 |
| Ninth pair of DIMMs | 2 | 14, 17 |
| Tenth pair of DIMMs | 2 | 20, 23 |
| Eleventh pair of DIMMs | 2 | 19, 22 |
| Twelfth pair of DIMMs | 2 | 15, 18 |
| **Note:** DIMM connectors 3, 6, 7, 10, 15, 18, 19, and 22 are not used in memory mirrored mode when UDIMMs are installed in the server. | | |

When you install or remove DIMMs, the server configuration information changes. When you restart the server, the system displays a message that indicates that the memory configuration has changed.

## Memory rank sparing

Sparing enables a failing rank to be replaced by ranks installed in an unoccupied space. An unused spare rank on the channel can be used to copy the contents of a failing rank on that channel.

You can enable rank sparing memory in the Setup utility (see “Starting the Setup utility” on page 107).

The following diagram lists the DIMM connectors on each memory channel.

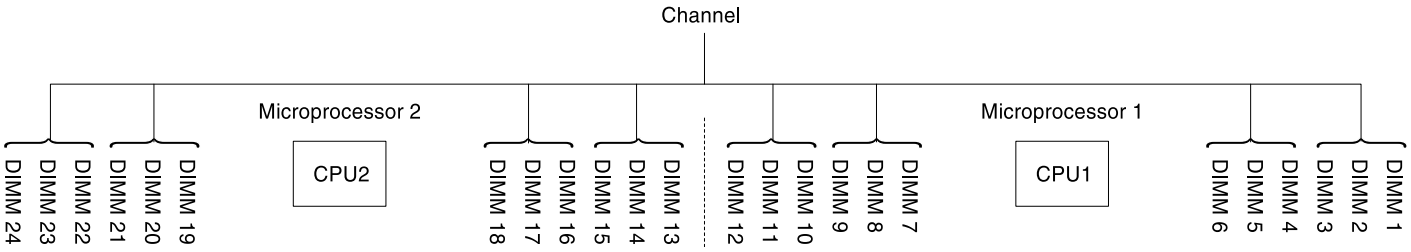



*Figure 43. Connectors on each memory channel*

**Note:** You can install DIMMs for the microprocessor 2 once the microprocessor 2 is installed. You do not need to wait until all of the DIMM connectors for microprocessor 1 are filled.

The following table shows the installation sequence for memory rank sparing mode:

*Table 7. Memory rank sparing mode DIMM population sequence*

| Number of DIMMs | Number of installed microprocessor | DIMM connector |
|---|---|---|
| First pair of DIMMs | 1 | 1, 2 |
| Second pair of DIMMs | 1 | 4, 5 |
| Third pair of DIMMs | 1 | 8, 9 |
| Fourth pair of DIMMs | 1 | 11, 12 |
| Fifth pair of DIMMs | 1 | 7, 10 |

*Table 7. Memory rank sparing mode DIMM population sequence (continued)*

| Number of DIMMs | Number of installed microprocessor | DIMM connector |
|---|---|---|
| Sixth pair of DIMMs | 1 | 3, 6 |
| Seventh pair of DIMMs | 2 | 13, 14 |
| Eighth pair of DIMMs | 2 | 16, 17 |
| Ninth pair of DIMMs | 2 | 20, 21 |
| Tenth pair of DIMMs | 2 | 23, 24 |
| Eleventh pair of DIMMs | 2 | 19, 22 |
| Twelfth pair of DIMMs | 2 | 15, 18 |
| **Note:** DIMM connectors 3, 6, 7, 10, 15, 18, 19, and 22 are not used in memory rank sparing mode when UDIMMs are installed in the server. | | |

## Installing a DIMM

Use this information to install a DIMM.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install a DIMM, complete the following steps.

Step 1. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 40).

Step 2. Remove the air baffle if installed (see “Removing the air baffle” on page 189).

Step 3. Open the retaining clip on each end of the DIMM connector.

**Attention:** To avoid breaking the retaining clips or damaging the DIMM connectors, open and close the clips gently.

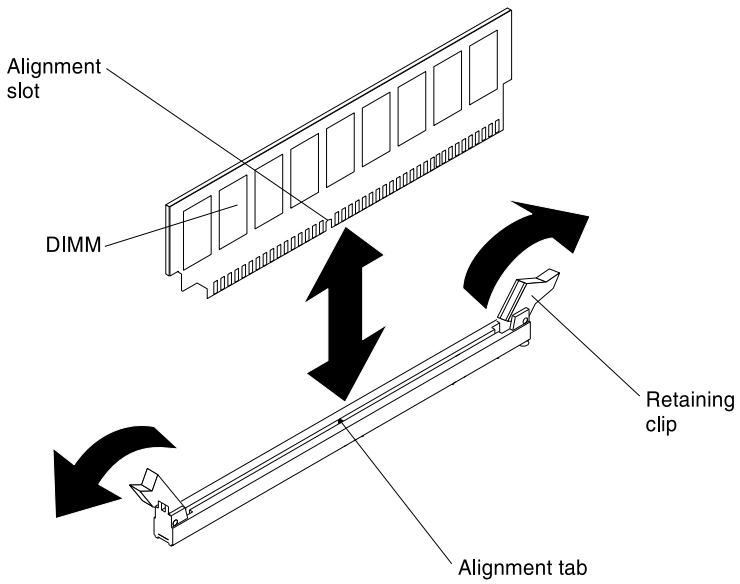



*Figure 44. DIMM installation*

Step 4. Touch the static-protective package that contains the DIMM to any unpainted metal surface on the outside of the server. Then, remove the DIMM from the package.

Step 5. Turn the DIMM so that the alignment slot align correctly with the alignment tab.

Step 6. Insert the DIMM into the connector by aligning the edges of the DIMM with the slots at the ends of the DIMM connector (see “System-board internal connectors” on page 27) for the locations of the DIMM connectors).

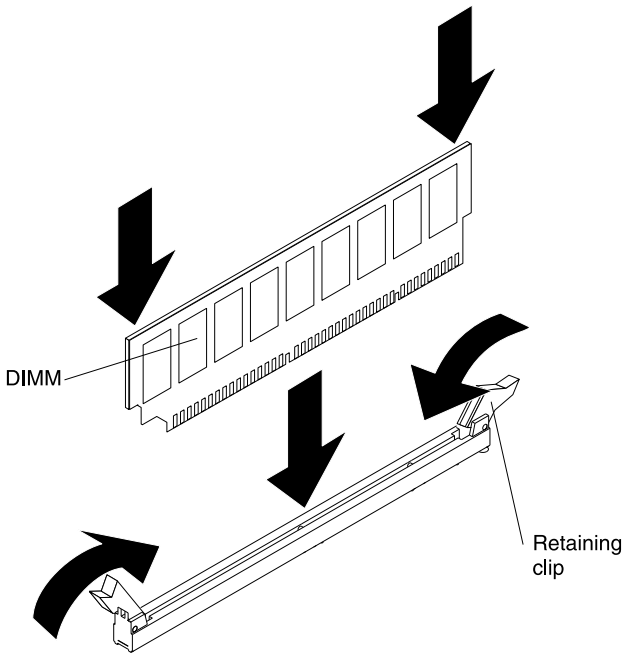



*Figure 45. Insert DIMM into connector*

Step 7. Firmly press the DIMM straight down into the connector by applying pressure on both ends of the DIMM simultaneously. The retaining clips snap into the locked position when the DIMM is firmly seated in the connector.

**Note:** If there is a gap between the DIMM and the retaining clips, the DIMM has not been correctly inserted; open the retaining clips, remove the DIMM, and then reinsert it.

If you have other devices to install or remove, do so now.

## Installing a PCI-X bracket

Use this information to install a PCI-X bracket.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install a PCI-X bracket, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 40).

Step 3. Touch the static-protective package that contains the adapter to any unpainted metal surface on the server; then, remove the adapter from the package.

Step 4. Locate PCI slot 1 which you will install the PCI-X bracket.

Step 5. Remove the screw that secures the expansion-slot cover.

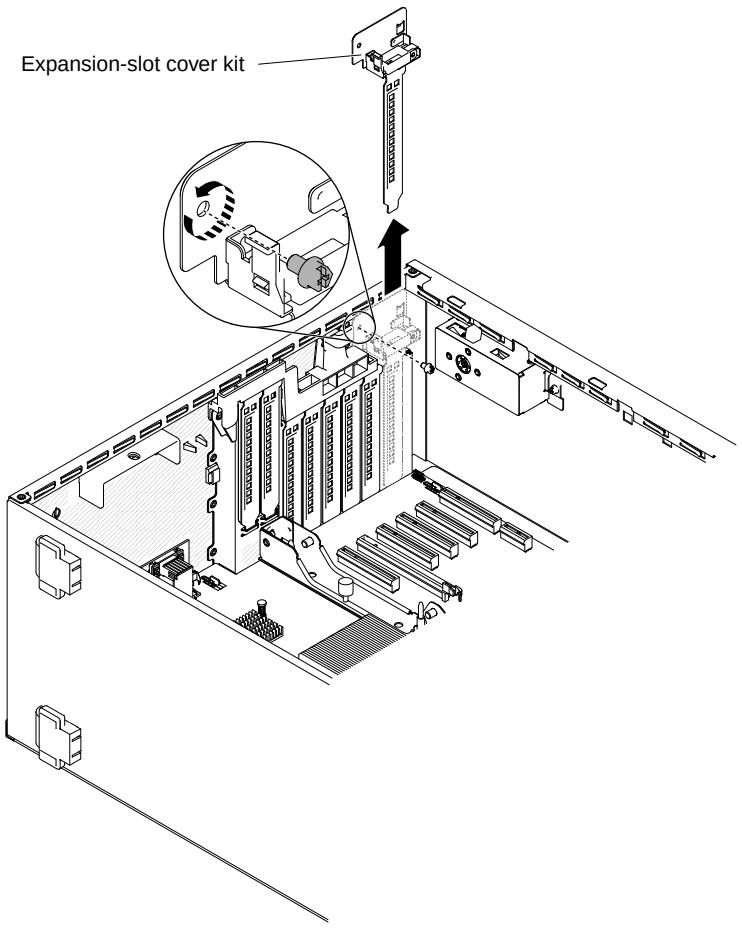



*Figure 46. Remove screw that secures the expansion-slot cover*

Step 6. Remove the expansion-slot cover kit in PCI slot 1 and save it for future use.

Step 7. Press the PCI-X bracket *firmly* into PCI slot 1.

**Attention:** Incomplete insertion might cause damage to the system board or the adapter.

Step 8. Make sure the latch on the side of the PCI-X bracket is secured to the rear of the server chassis.

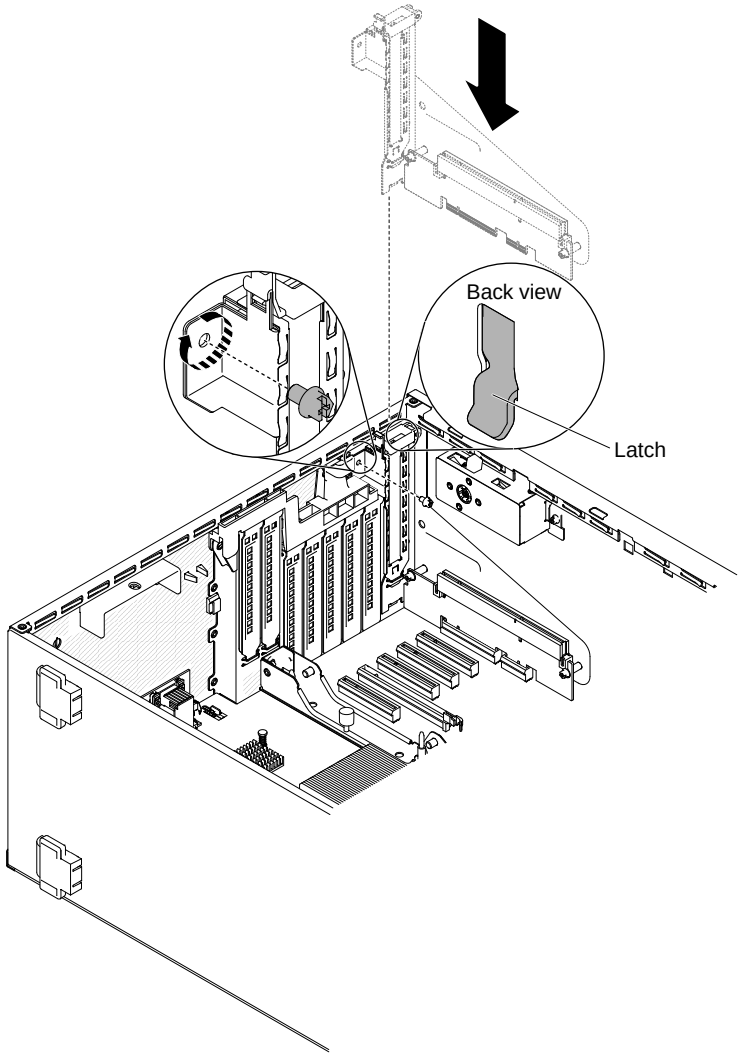



*Figure 47. PCI-X bracket insertion*

Step 9. Install the screw that secures the PCI-X bracket to the server.

If you have other devices to install or remove, do so now.

## Installing an adapter

Use this information to install an adapter.

The following notes describe the types of adapters that the server supports and other information that you must consider when you install an adapter:

- To confirm that the server supports the adapter that you are installing, see http://www.lenovo.com/serverproven/.
- Locate the documentation that comes with the adapter and follow those instructions in addition to the instructions in this section.
- Do not set the maximum digital video adapter resolution above 1600 x 1200 at 75 Hz for an LCD monitor. This is the highest resolution that is supported for any add-on video adapter that you install in the server.

- Avoid touching the components and gold-edge connectors on the adapter.
- The server uses a rotational interrupt technique to configure PCI adapters so that you can install PCI adapters that do not support sharing of PCI interrupts.
- The following table lists the option part numbers and CRU part numbers for the network adapters.

*Table 8. Network adapters*

| Network adapters description | Option part number | CRU part number |
|---|---|---|
| NetXtreme II 1000 express Ethernet adapter | 39Y6066 | 39Y6070 |
| NetXtreme II 1000 express dual-port Ethernet adapter | 42C1780 | 49Y7947 |
| QLogic 10Gb CNA | 42C1800 | 42C1802 |
| QLogic 8Gb FC dual-port HBA | 42D0510 | 42D0516 |
| NetXtreme II 1000 express quad-port Ethernet adapter | 49Y4220 | 49Y7949 |
| Intel Ethernet dual-port server adapter I340-T2 | 49Y4230 | 49Y4232 |
| Intel Ethernet quad-port server adapter I340-T4 | 49Y4240 | 49Y4242 |
| Broadcom NetXtreme II dual-port 10GBaseT adapter | 49Y7910 | 49Y7912 |
| Intel X520-DA2 dual-port 10GbE SFP adapter | 49Y7960 | 49Y7962 |
| Intel X540-T2 dual-port 10GBaseT adapter | 49Y7970 | 49Y7972 |
| Broadcom NetXtreme I quad-port GbE adapter | 90Y9352 | 90Y9355 |
| Broadcom NetXtreme I dual-port GbE adapter | 90Y9370 | 90Y9373 |
| Emulex 10 GbE virtual fabric adapter III | 95Y3762 | 9573766 |
| Emulex 10 GbE virtual fabric adapter III lite | 95Y3768 | 95Y3766 |

**Attention:** Static electricity that is released to internal server components when the server is powered-on might cause the server to stop, which might result in the loss of data. To avoid this potential problem, always use an electrostatic-discharge wrist strap or other grounding system when working inside the server with the power on.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install an adapter, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 40).

Step 3. See the documentation that comes with the adapter for any cabling instructions and information about jumper or switch settings. (It might be easier for you to route cables before you install the adapter.)

Step 4. Touch the static-protective package that contains the adapter to any unpainted metal surface on the server; then, remove the adapter from the package.

Step 5. Determine the PCI slot into which you will install the adapter.

Step 6. Rotate the adapter-retention brackets to the open position.

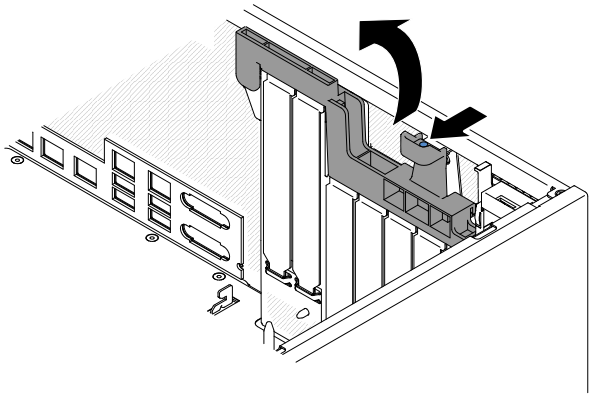


*Figure 48. Rotate the adapter-retention brackets to the open position*

Step 7. Remove the PCI slot filler, if installed. Keep the filler in a safe place for potential future use.

Step 8. Press the adapter *firmly* into the expansion slot.

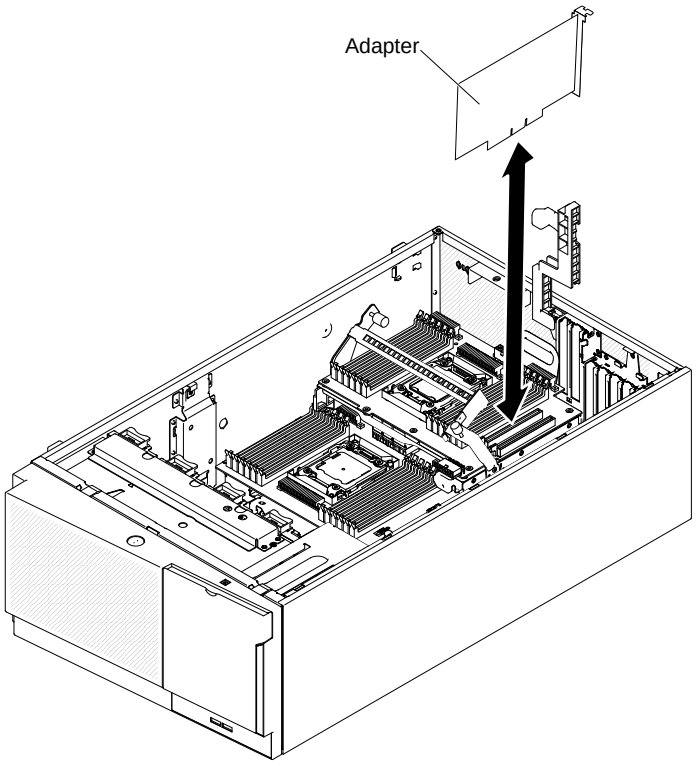



*Figure 49. Press adapter into expansion slot*

**Attention:** Incomplete insertion might cause damage to the system board or the adapter.

Step 9. Close the adapter-retention bracket.

Step 10. Perform any configuration tasks that are required for the adapter.

If you have other devices to install or remove, do so now.

## Installing an adapter on the PCI-X bracket

Use this information to install an adapter on the PCI-X bracket.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install an adapter on the PCI-X bracket, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 40).

Step 3. See the documentation that comes with the adapter for any cabling instructions and information about jumper or switch settings. (It might be easier for you to route cables before you install the adapter.)

Step 4. Touch the static-protective package that contains the adapter to any unpainted metal surface on the server; then, remove the adapter from the package.

Step 5. Locate PCI slot 1 which you will install the adapter into.

Step 6. Rotate the adapter-retention brackets on the PCI-X bracket to the open position.

**Note:** Remove the expansion-slot cover if it is installed on the PCI-X bracket and save it for future use.

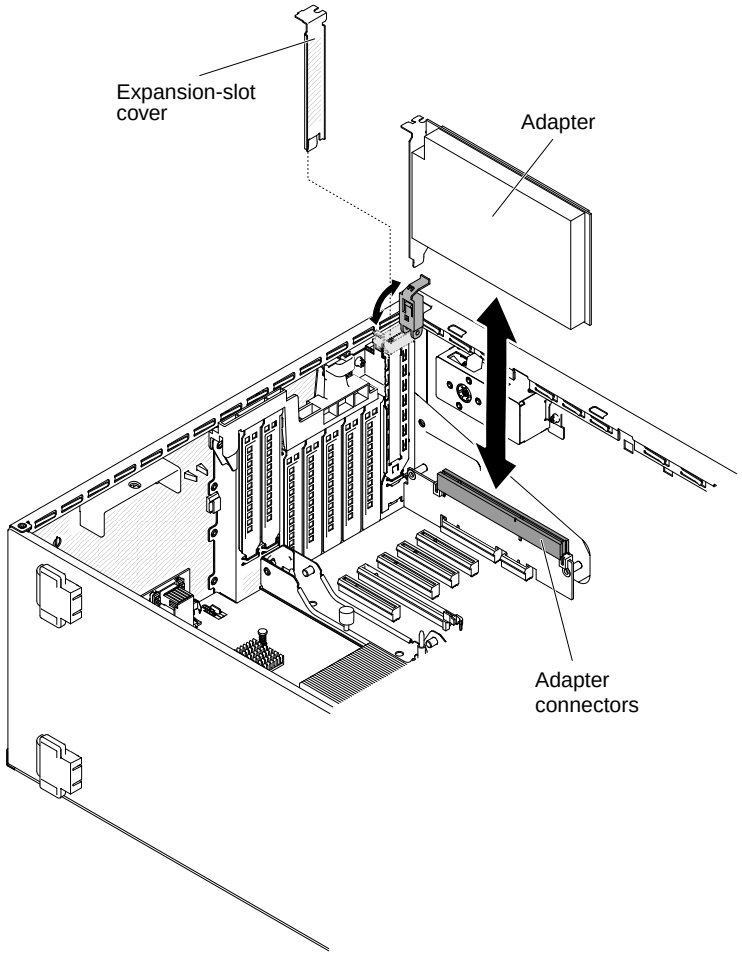



*Figure 50. Rotate the adapter-retention brackets to the open position*

Step 7. Remove the PCI slot filler, if installed. Keep the filler in a safe place for potential future use.

Step 8. Press the adapter *firmly* into the expansion slot.

**Attention:** Incomplete insertion might cause damage to the system board or the adapter.

Step 9. Perform any configuration tasks that are required for the adapter.

If you have other devices to install or remove, do so now.

## Installing an optional ServeRAID adapter memory module

Use this information to install an optional ServeRAID adapter memory module.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install an optional ServeRAID adapter memory module, complete the following steps.

Step 1. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 40).

Step 2. Locate the ServeRAID adapter which you will install the memory module. Remove the ServeRAID adapter if necessary.

Step 3. Touch the static-protective package that contains the memory card to any unpainted metal surface on the server; then, remove the memory card from the package.

Step 4. Align the memory module with the connector on the ServeRAID adapter and push it into the connector until it is firmly seated.

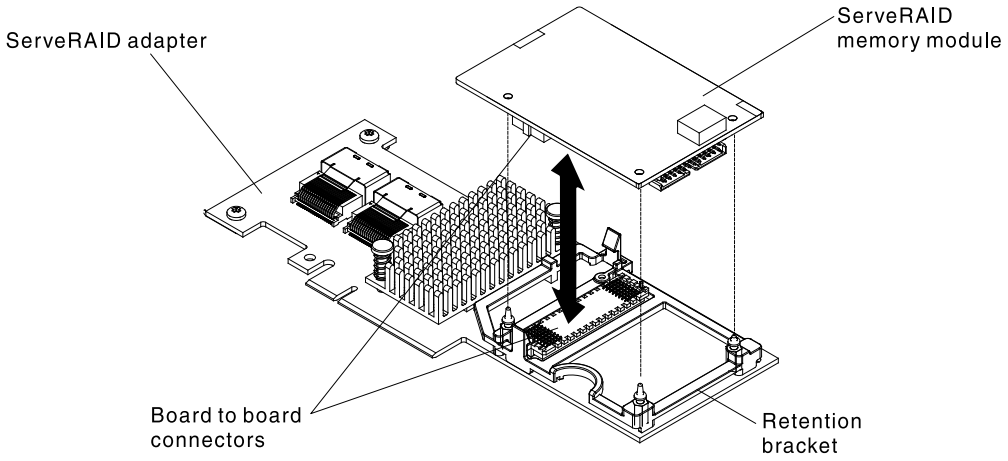



*Figure 51. Align the memory module*

If you have other devices to install or remove, do so now.

## Installing a RAID adapter battery or flash power module remotely in the server

Use this information to install a RAID adapter battery or flash power module remotely in the server.

**Note:** When you install any RAID adapter that comes with batteries, it is sometimes necessary to install the batteries in another location in the server to prevent the batteries from overheating.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install a RAID adapter battery or flash power module remotely in the server, complete the following steps.

Step 1. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 40).

Step 2. Install the ServeRAID adapter on the system board (see “Installing an adapter” on page 216).

Step 3. Connect one end of the battery/flash power module cable to the battery/flash power module connector.

Step 4. Route the remote battery/flash power module cable as shown in the following illustration.

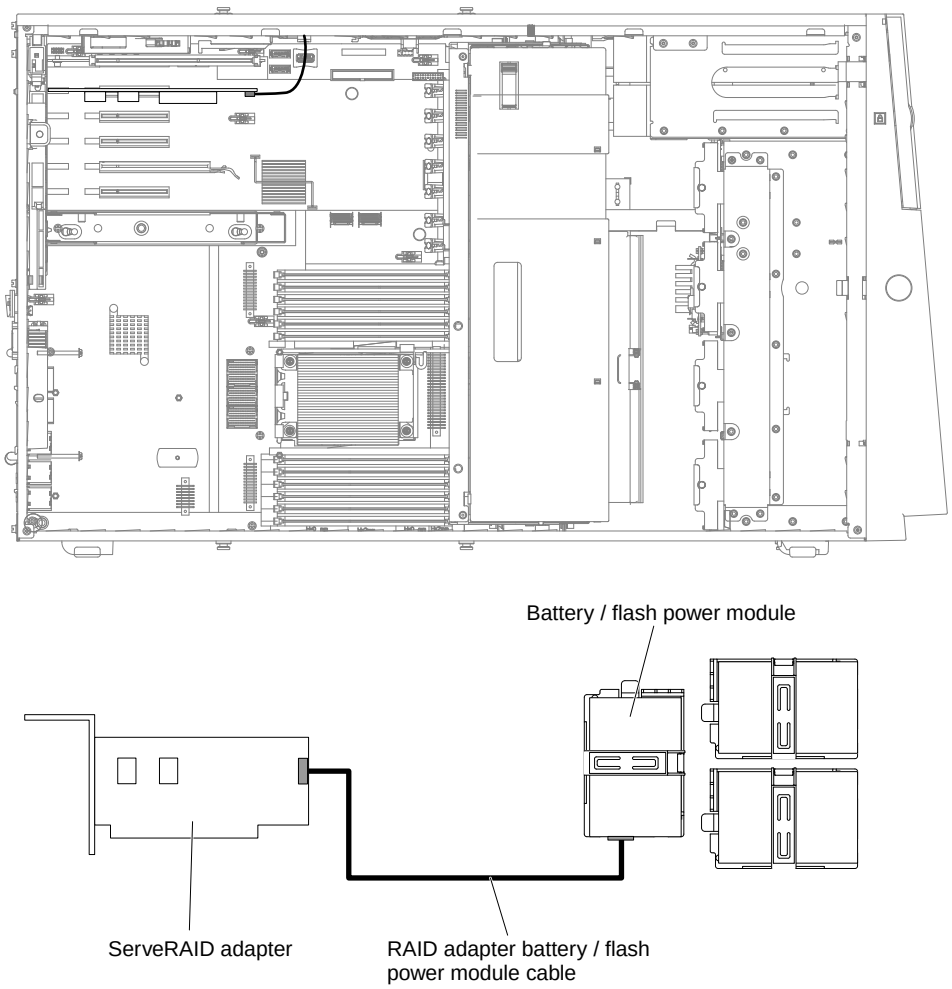



*Figure 52. Route the battery/flash power module*

**Attention:** Make sure that the cable is not pinched and does not cover any connectors or obstruct any components on the system board.

Step 5. Install the battery/flash power module:

a. Align the battery/flash power module cable connector with the slot on the battery/flash power module holder. Place the battery/flash power module into the battery/flash power module holder and make sure that the battery/flash power module holder engages the battery/flash power module securely.

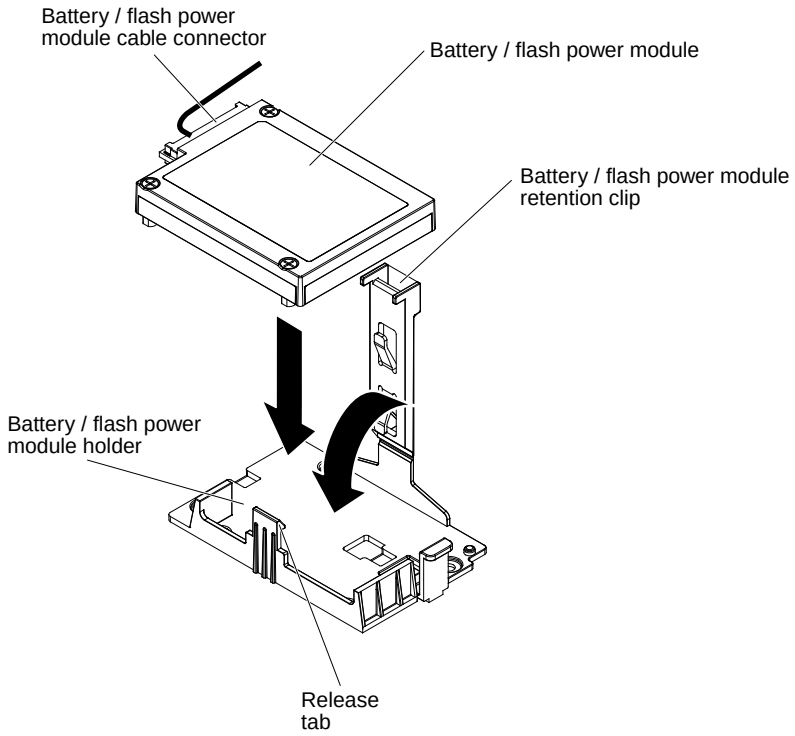



*Figure 53. Align the battery/flash power module cable connector*

**Note:** The positioning of the remote battery/flash power module depends on the type of the remote batteries/flash power module that you install.

b. Connect the other end of the battery/flash power module cable to the battery/flash power module cable connector on the battery/flash power module.

c. Lower and press down on the retention clip until it snaps in place to hold the battery/flash power module firmly in place.

If you have other devices to install or remove, do so now.

## Installing the microprocessor 2 expansion board

Use this information to install the microprocessor 2 expansion board

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install the microprocessor 2 expansion board, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 40).

Step 3. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 4. Touch the static-protective package that contains the microprocessor 2 expansion board to any unpainted metal surface on the server; then, remove the microprocessor 2 expansion board from the package.

Step 5. Install the microprocessor 2 expansion board side bracket.

a. Align the side bracket with the holes on the chassis and install the side bracket on the system board.

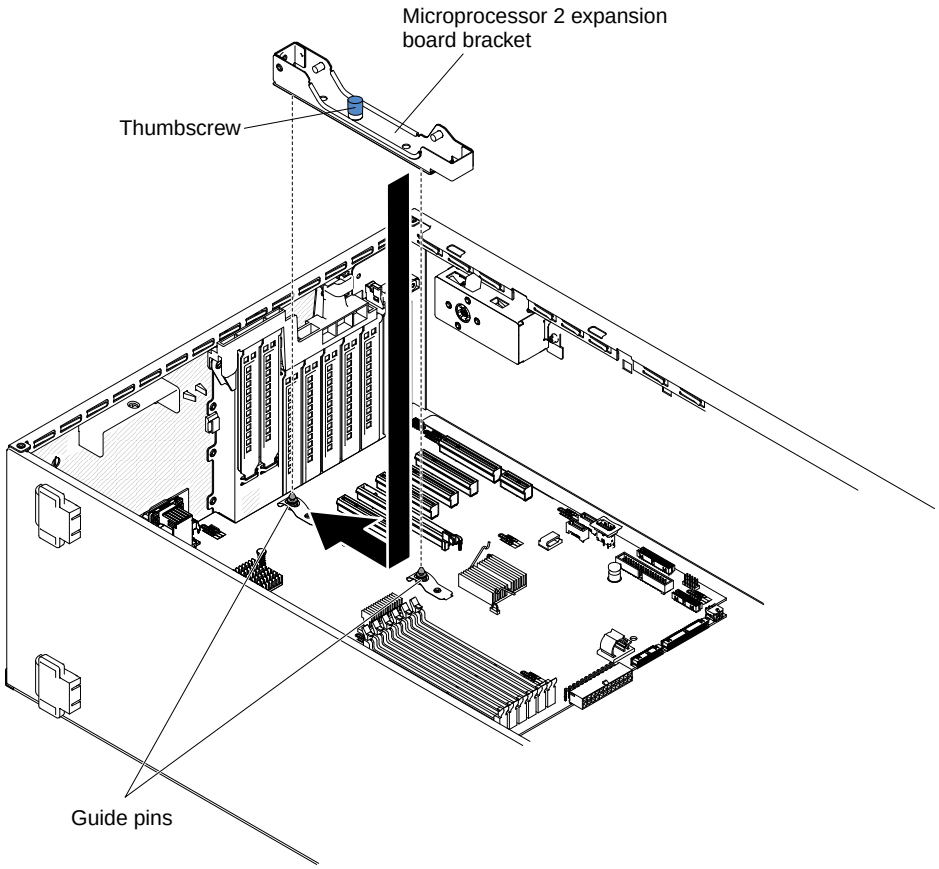



*Figure 54. Align the side bracket*

b. Slide the side bracket toward the rear of the server.

c. Fasten the thumbscrew on the side bracket.

Step 6. Install the two guide pins on the system board.

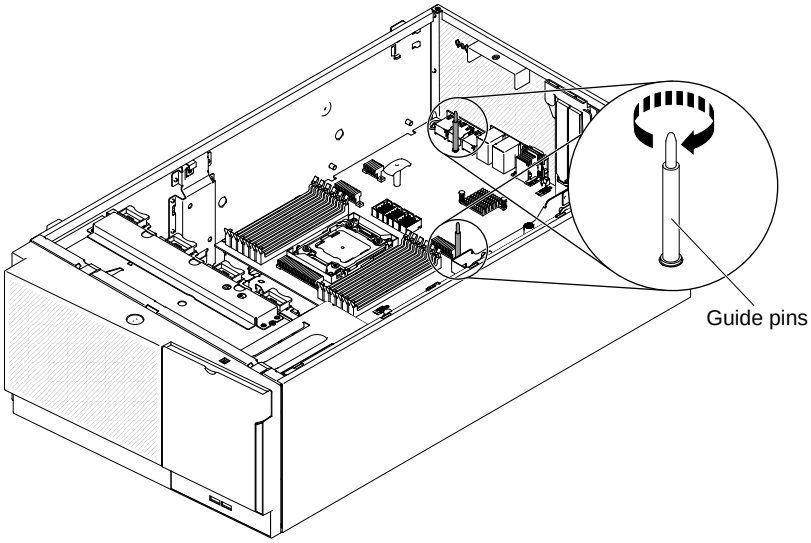



*Figure 55. Install two guide pins*

Step 7. Remove the cover on the microprocessor 2 expansion board connector from the system board.

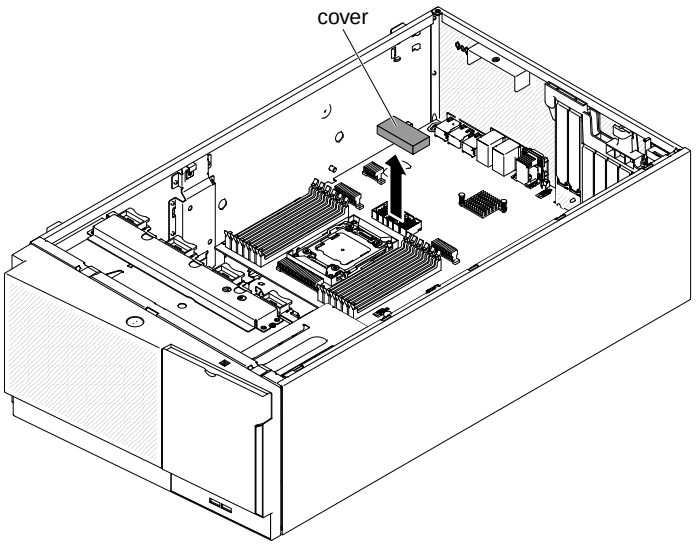



*Figure 56. Remove cover*

Step 8. Make sure the microprocessor 2 expansion board release lever is in the open position.

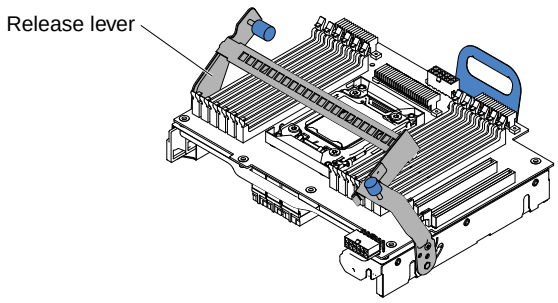



*Figure 57. Release lever in open position*

Step 9. Align the microprocessor 2 expansion board to the guide pins on the bottom of the chassis and the side bracket.

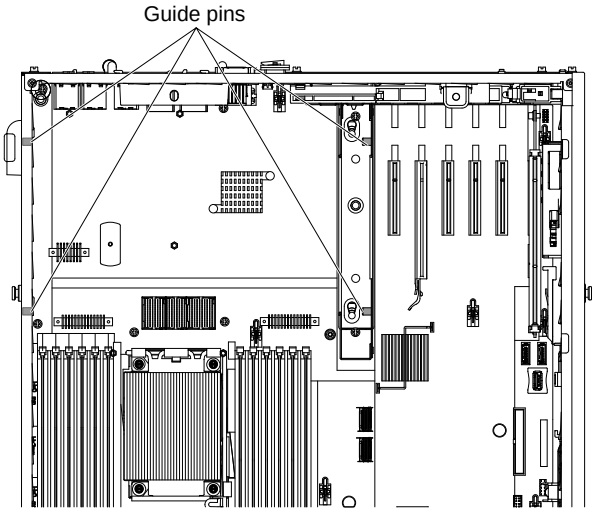



*Figure 58. Align CPU 2 expansion board*

Step 10. Align the holes on the microprocessor 2 expansion board to the guide pins on the system board. Install the microprocessor 2 expansion board on the system board.

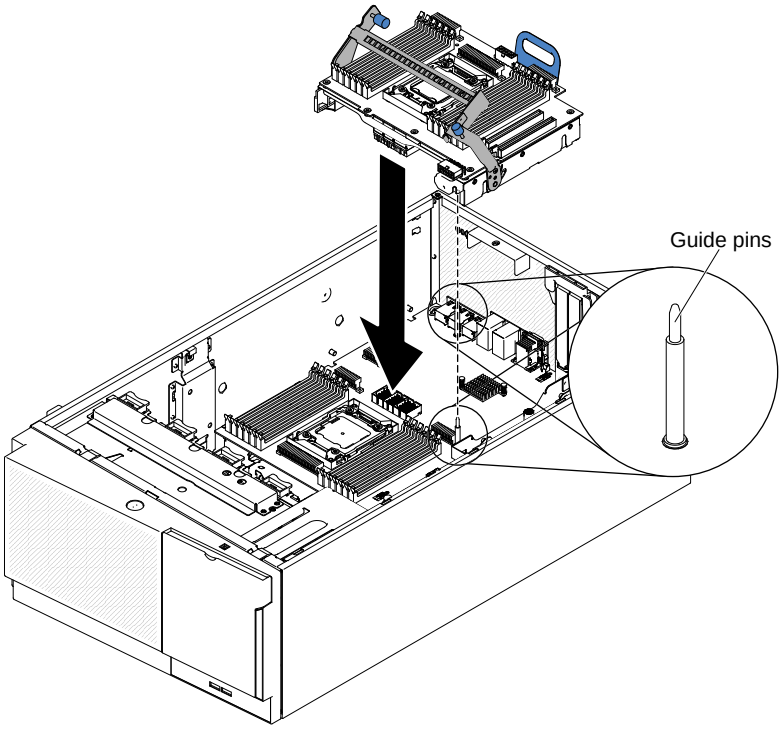



*Figure 59. Align holes in CPU 2*

Step 11. Press the microprocessor 2 expansion board firmly and horizontally to the system board.

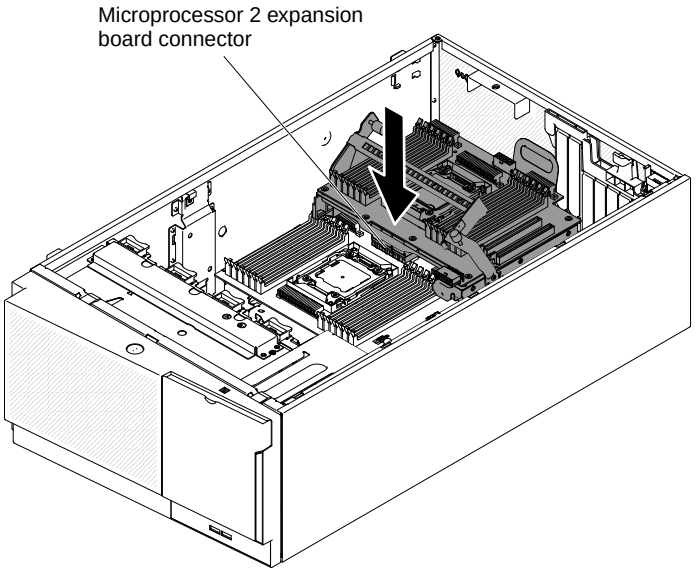



*Figure 60. Press CPU 2 expansion board on system board*

**Notes:**

1. Static electricity that is released to internal server components when the server is powered-on might cause the server to halt, which might result in the loss of data. To avoid this potential

problem, always use an electrostatic-discharge wrist strap or other grounding system when you work inside the server with the power on.

2. Make sure that none of the server cables are caught under the microprocessor 2 expansion board.

Step 12. Rotate the release lever toward the front of the server to secure the microprocessor 2 expansion board in place.

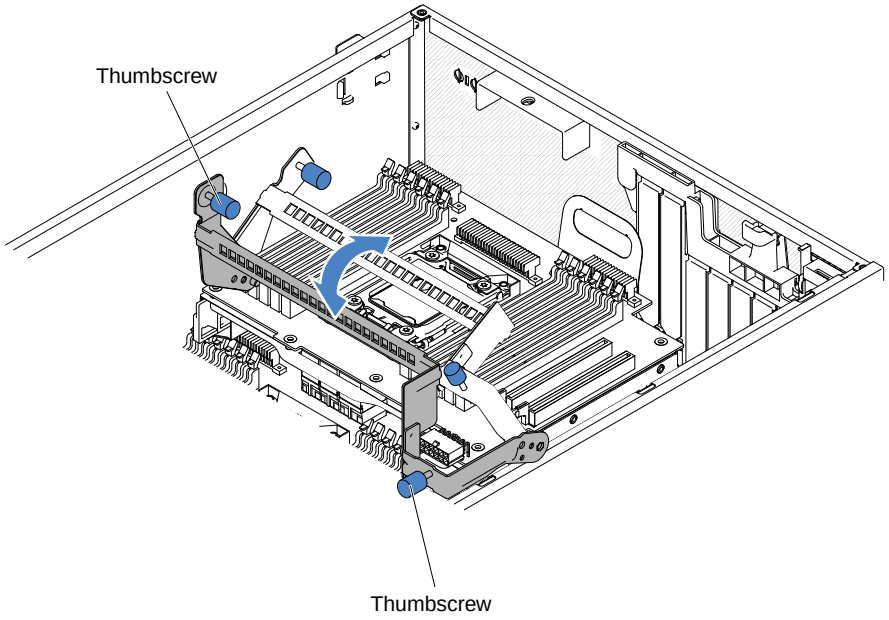



*Figure 61. Rotate release lever to the front*

**Note:** Press the microprocessor 2 expansion board connector to make sure the connector is seated securely on the system board.

Step 13. Fasten the two thumbscrews on the release lever.

Step 14. Route the power cable to the microprocessor 2 expansion board power connector from the power paddle card.

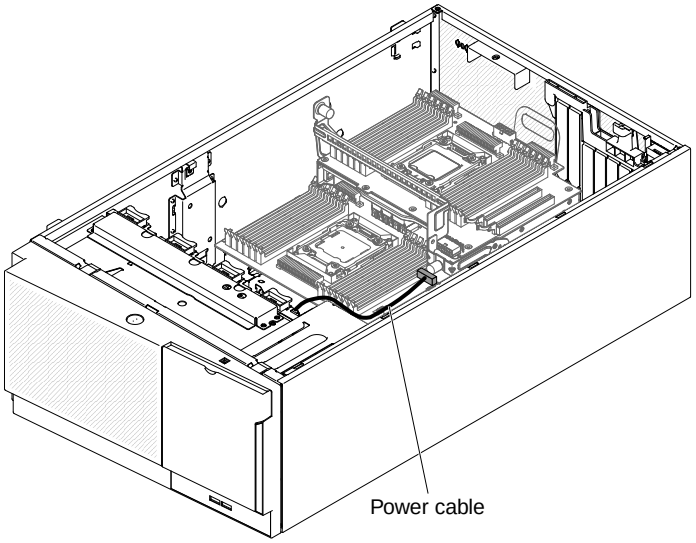



*Figure 62. Route the power cable*

Step 15. Connect the power cable to the microprocessor 2 expansion board power connector from the power paddle card.

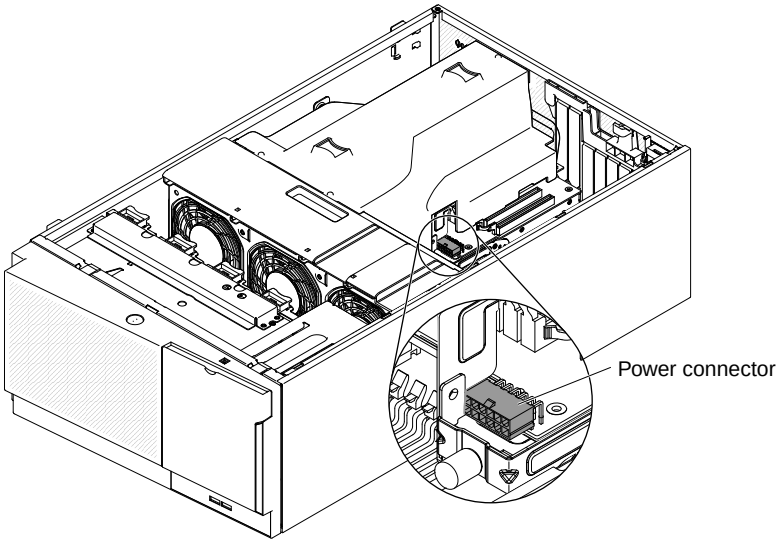



*Figure 63. Connect the power cable*

**Note:** You might need to install the air baffle before connecting the power cable.

If you have other devices to install or remove, do so now.

## Installing a microprocessor and heat sink

Use this information to install a microprocessor and heat sink.

The following notes describe the type of microprocessor that the server supports and other information that you must consider when you install a microprocessor and heat sink:

- Microprocessors are to be installed only by trained technicians.

  **Important:** Always use the microprocessor installation tool to install a microprocessor. Failing to use the microprocessor installation tool may damage the microprocessor sockets on the system board. Any damage to the microprocessor sockets may require replacing the system board.
- The server supports certain Intel Xeon scalable multi-core microprocessors, which are designed for the LGA 2011 socket. These microprocessors are 64-bit dual-core or quad-core microprocessors with an integrated memory controller, quick-path interconnect, and shared last cache. See http://www.lenovo.com/ serverproven/ for a list of supported microprocessors.
- Do not mix microprocessors with different cores in the same server.
- The server supports up to two microprocessors when the microprocessor 2 expansion board is installed.

  **Note:** Microprocessor 2 expansion board is supported when the second microprocessor is installed.
- When two microprocessors are installed, the air baffle and fan 2 must be installed to provide proper system cooling.
- When you install the second microprocessor, you must also install additional memory, the air baffle, and fan 2. See “Memory module installation” on page 60 for details about the installation sequence.
- To ensure proper server operation when you install an additional microprocessor, use microprocessors that have the same QuickPath Interconnect (QPI) link speed, integrated memory controller frequency, core frequency, power segment, internal cache size, and type.
- Mixing microprocessors of different stepping levels within the same server model is supported.
- When mixing microprocessors with different stepping levels within the same server model, you do not have to install the microprocessor with lowest stepping level and features in microprocessor socket 1.
- Read the documentation that comes with the microprocessor to determine whether you have to update the server firmware. To download the latest level of server firmware and other code updates for the server, go to http://www.ibm.com/support/ fixcentral.
- The microprocessor speeds are automatically set for this server; therefore, you do not have to set any microprocessor frequency-selection jumpers or switches.
- If the thermal-grease protective cover (for example, a plastic cap or tape liner) is removed from the heat sink, do not touch the thermal grease on the bottom of the heat sink or set down the heat sink. For more information about applying or working with thermal grease, see “Thermal grease” on page 91.

  **Note:** Removing the heat sink from the microprocessor destroys the even distribution of the thermal grease and requires replacing the thermal grease.
- Do not remove the first microprocessor from the system board to install the second microprocessor.
- To order an additional optional microprocessor, contact your Lenovo sales representative or Lenovo reseller.

There are two types of microprocessor installation tools. The tools are similar in function and design, however Tool A has one setting for installing one size of microprocessor, and supports the following families of microprocessors: E5-26xx, E5-46xx. Installation Tool B has two settings for installing two different sizes of microprocessors. The settings that are marked on Tool B are “L” for smaller low core microprocessors, and “H” for larger high core microprocessors. Installation Tool B supports the following families of microprocessors: E5-26xx, E5-46xx, E5-26xx v2, E5-46xx v2.

Microprocessor Installation Tools A and B are shown in the following illustration.

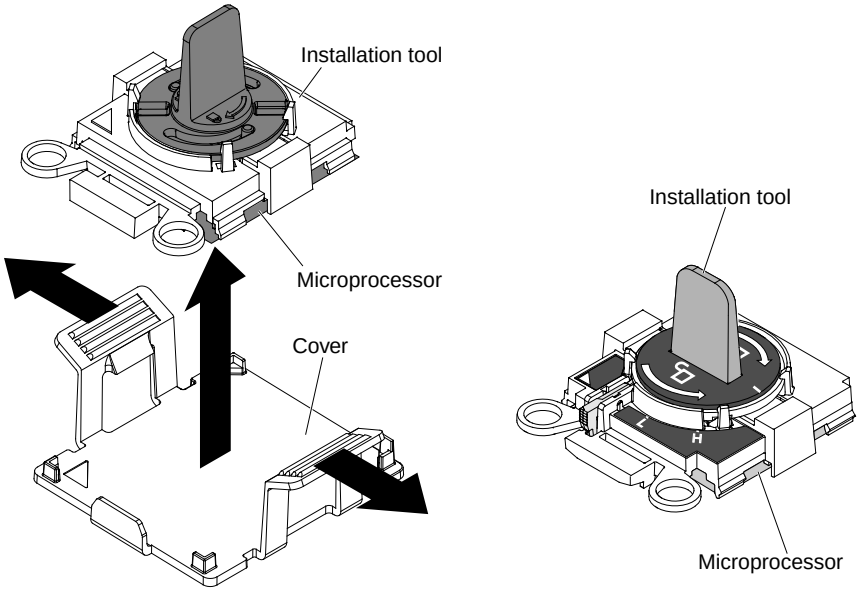



*Figure 64. Microprocessor installation tools*

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

**Attention:** When you handle static-sensitive devices, take precautions to avoid damage from static electricity. For details about handling these devices, see “Handling static-sensitive devices” on page 37.

To install a microprocessor and heat sink, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 40).

Step 3. Locate microprocessor socket 2 on the microprocessor 2 expansion board.

Step 4. Rotate the heat sink retention module release lever to the open position.

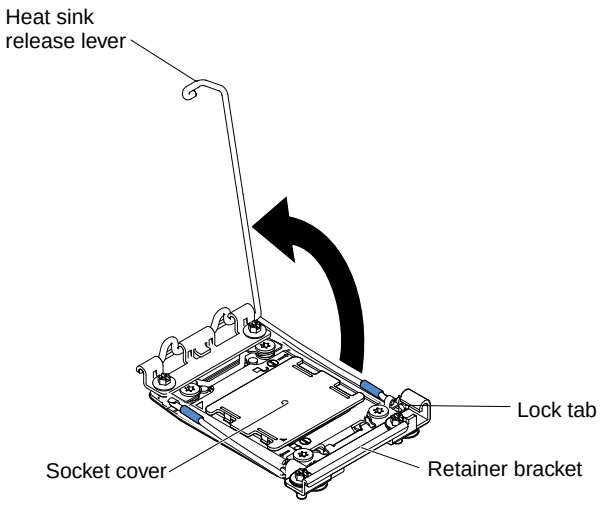



*Figure 65. Rotate the heat sink*

Step 5. Open the microprocessor socket release levers and retainer:

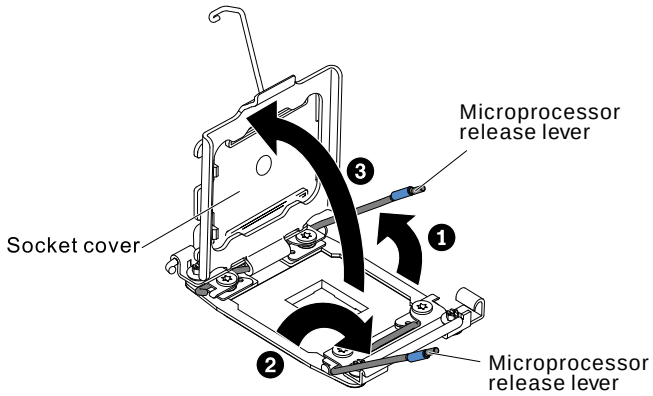



*Figure 66. Open the microprocessor socket release lever*

a. Identify which release lever is labeled as the first release lever to open and open it.
b. Open the second release lever on the microprocessor socket.
c. Open the microprocessor retainer.

**Attention:** Do not touch the connectors on the microprocessor and the microprocessor socket.

Step 6. Install the microprocessor on the microprocessor socket:

a. Touch the static-protective package that contains the new microprocessor to any unpainted on the chassis or any unpainted metal surface on any other grounded rack component; then, carefully remove the microprocessor from the package.
b. Release the sides of the cover and remove the cover from the installation tool. The microprocessor is preinstalled on the installation tool.

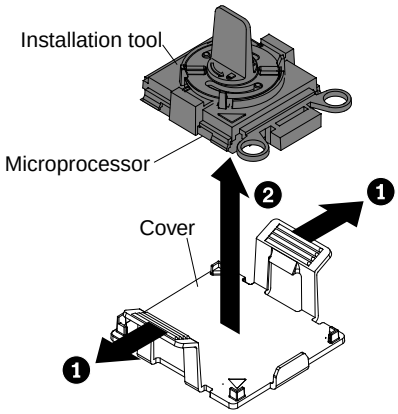



*Figure 67. Release the sides of the cover*

**Note:** Do not touch the microprocessor contacts. Contaminants on the microprocessor contacts, such as oil from your skin, can cause connection failures between the contacts and the socket.

c. Align the installation tool with the microprocessor socket. The installation tool rests flush on the socket only if properly aligned.

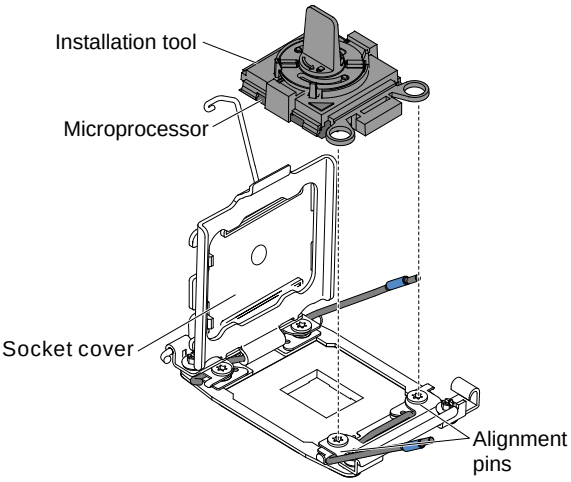



*Figure 68. Align the installation tool with the microprocessor socket*

d. Install the microprocessor using the following instructions for your installation tool.

- If using Installation Tool A, twist the handle on the microprocessor tool assembly counterclockwise to the open position to insert the microprocessor into the socket, and lift the installation tool out of the socket.
- If using Installation Tool B, twist the handle of the installation tool assembly counterclockwise until the microprocessor is inserted into the socket, and lift the installation tool out of the socket. The following illustration shows the tool handle in the open position.

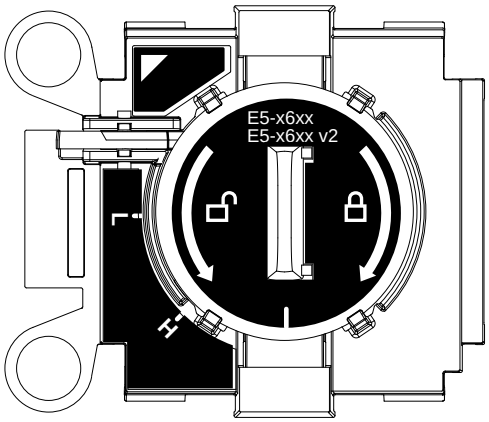



*Figure 69. Installation Tool B*

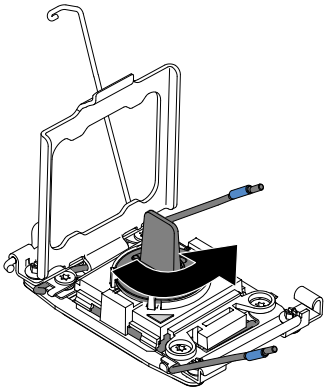


*Figure 70. Installation tool handle adjustment*

**Attention:**

- Do not press the microprocessor into the socket.
- Make sure that the microprocessor is oriented and aligned correctly in the socket before you try to close the microprocessor retainer.
- Do not touch the thermal material on the bottom of the heat sink or on top of the microprocessor. Touching the thermal material will contaminate it.

Step 7. Remove the microprocessor socket dust cover, tape, or label from the surface of the microprocessor socket, if one is present. Store the socket cover in a safe place.

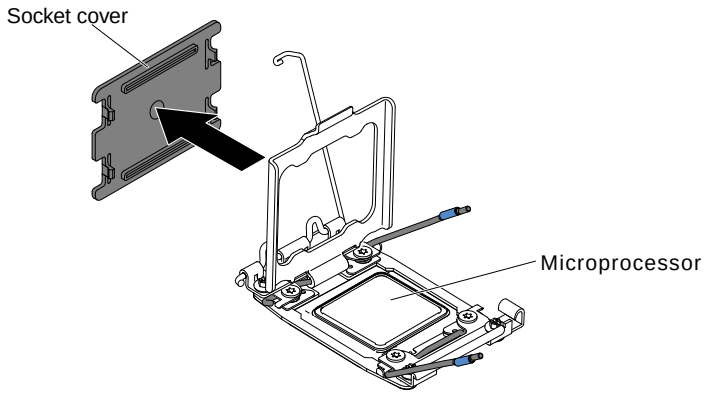



*Figure 71. Remove the microprocessor dust cover tape*

**Attention:** When you handle static-sensitive devices, take precautions to avoid damage from static electricity. For details about handling these devices, see ( “Handling static-sensitive devices” on page 37).

Step 8. Close the microprocessor socket release levers and retainer:

a. Close the microprocessor retainer on the microprocessor socket.

b. Identify which release lever is labeled as the first release lever to close and close it.

c. Close the second release lever on the microprocessor socket.

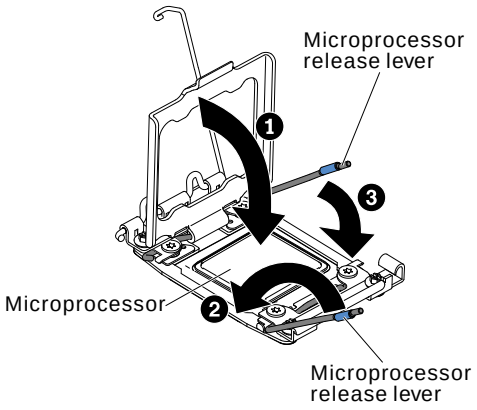



*Figure 72. Close the second release lever*

Step 9. Install the heat sink:

**Attention:**

- Do not set down the heat sink after you remove the plastic cover.
- Do not touch the thermal grease on the bottom of the heat sink after you remove the plastic cover. Touching the thermal grease will contaminate it. See “Thermal grease” on page 91 for more information.

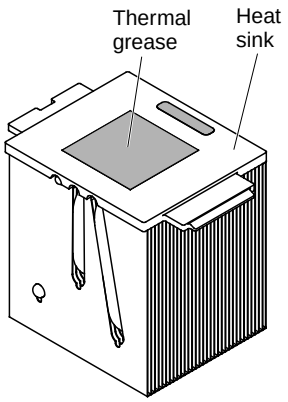



*Figure 73. Thermal grease*

1. Remove the plastic protective cover from the bottom of the heat sink.
2. Position the heat sink over the microprocessor. The heat sink is keyed to assist with proper alignment.
3. Align and place the heat sink on top of the microprocessor in the retention bracket, thermal material side down.
4. Press firmly on the heat sink.
5. Rotate the heat sink retention module release lever to the closed position and hook it underneath the lock tab.

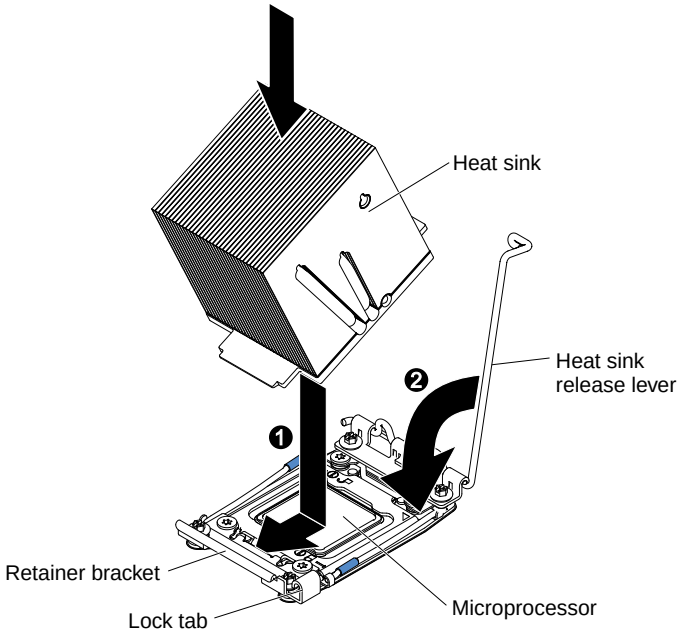



*Figure 74. Rotate heat sink*

Step 10. If you installed the second microprocessor, install the air baffle (see “Replacing the air baffle” on page 99) and fan 2 (see “Installing a simple-swap fan” on page 230).

If you have other devices to install or remove, do so now.

## Thermal grease

The thermal grease must be replaced whenever the heat sink has been removed from the top of the microprocessor and is going to be reused or when debris is found in the grease. Use this information to replace damaged or contaminated thermal grease on the microprocessor and heat sink.

When you are installing the heat sink on the same microprocessor that it was removed from, make sure that the following requirements are met:

- The thermal grease on the heat sink and microprocessor is not contaminated.
- Additional thermal grease is not added to the existing thermal grease on the heat sink and microprocessor.

**Notes:**

- Read the safety information in “Safety” on page v.
- Read the “Installation guidelines” on page 35.
- Read “Handling static-sensitive devices” on page 37.

To replace damaged or contaminated thermal grease on the microprocessor and heat sink, complete the following steps.

Step 1. Place the heat sink on a clean work surface.

Step 2. Remove the cleaning pad from its package and unfold it completely.

Step 3. Use the cleaning pad to wipe the thermal grease from the bottom of the heat sink.

**Note:** Make sure that all of the thermal grease is removed.

Step 4. Use a clean area of the cleaning pad to wipe the thermal grease from the microprocessor; then, dispose of the cleaning pad after all of the thermal grease is removed.

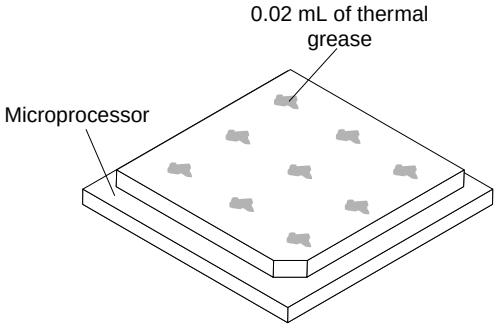



*Figure 75. 9 uniformly spaced dots on the top of the microprocessor*

Step 5. Use the thermal-grease syringe to place 9 uniformly spaced dots of 0.02 mL each on the top of the microprocessor. The outermost dots must be within approximately 5 mm of the edge of the microprocessor. This is to ensure uniform distribution of the grease.

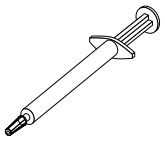


*Figure 76. Thermal-grease syringe*

**Note:** 0.01 mL is one tick mark on the syringe. If the grease is properly applied, approximately half (0.22 mL) of the grease will remain in the syringe.

Step 6. Install the heat sink onto the microprocessor as described in “Installing a microprocessor and heat sink” on page 288.

## Installing a hot-swap power supply

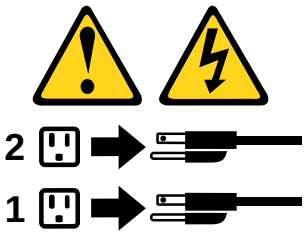
Use this information to install a hot-swap power supply.

The following notes describe the type of ac power supply that the server supports and other information that you must consider when you install a power supply:

- Make sure that the devices that you are installing are supported. For a list of supported optional devices for the server, see http://www.lenovo.com/ serverproven/.
- Before you install an additional power supply or replace a power supply with one of a different wattage, you may use the Lenovo Power Configurator utility to determine current system power consumption. For more information and to download the utility, go to http://www.ibm.com/systems/bladecenter/resources/powerconfig.html.
- The server comes with one hot-swap 12-volt output power supply that connects to power supply bay 1. The input voltage is 110 V ac or 220 V ac auto-sensing.
- Power supplies in the server must be with the same power rating or wattage to ensure that the server will operate correctly.
- Power supply 1 is the default/primary power supply. If power supply 1 fails, you must replace the power supply with the same wattage immediately.
- You can order an optional power supply for redundancy.
- These power supplies are designed for parallel operation. In the event of a power-supply failure, the redundant power supply continues to power the system. The server supports a maximum of two power supplies.

**Statement 5**

**CAUTION:**
**The power control button on the device and the power switch on the power supply do not turn off the electrical current supplied to the device. The device also might have more than one power cord. To remove all electrical current from the device, ensure that all power cords are disconnected from the power source.**




**Statement 8**

**CAUTION:**
**Never remove the cover on a power supply or any part that has the following label attached.**

**Hazardous voltage, current, and energy levels are present inside any component that has this label attached. There are no serviceable parts inside these components. If you suspect a problem with one of these parts, contact a service technician.**

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

**Attention:** Static electricity that is released to internal server components when the server is powered-on might cause the server to halt, which might result in the loss of data. To avoid this potential problem, always use an electrostatic-discharge wrist strap or other grounding system when you work inside the server with the power on.

To install a hot-swap power supply, complete the following steps.

**Note:** You must install the fan cage assembly before removing or installing the power supply.

Step 1. Touch the static-protective package that contains the hot-swap power supply to any unpainted metal surface on the server; then, remove the power supply from the package and place it on a static-protective surface.

Step 2. Remove the power-supply filler panel from the power bay, if one is installed.

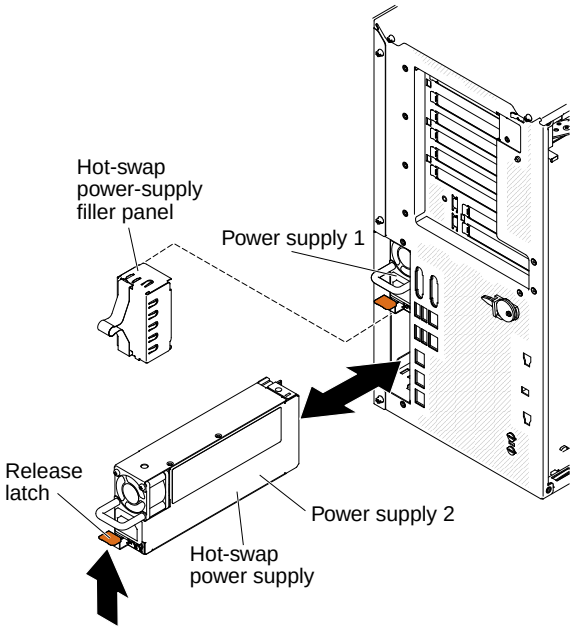



*Figure 77. Power-supply filler panel removal*

Step 3. Install the power supply and push it in until it locks into place.

**Notes:**

1. If only one hot-swap power supply is installed in the server, a power-supply filler must be installed in the empty power bay.
2. Do not mix power supplies with different wattage in the server.

Step 4. Route the power cord through the handle and cable tie if any, so that it does not accidentally become unplugged.

Step 5. Connect one end of the power cord for the new power supply into the connector on the back of the power supply; then, connect the other end of the power cord to a properly grounded electrical outlet.

**Note:** If the server has been turned off, you must wait approximately 3 minutes after you connect the server power cord to an electrical outlet before the power-control button becomes active.

Step 6. Make sure that the ac power LED and the dc power LED on the ac power supply are lit, indicating that the power supply is operating correctly. The two green LEDs are to the right of the power-cord connector.

Step 7. If you are replacing a power supply with one of a different wattage, apply the power information label provided with the new power supply over the existing power information label on the server.

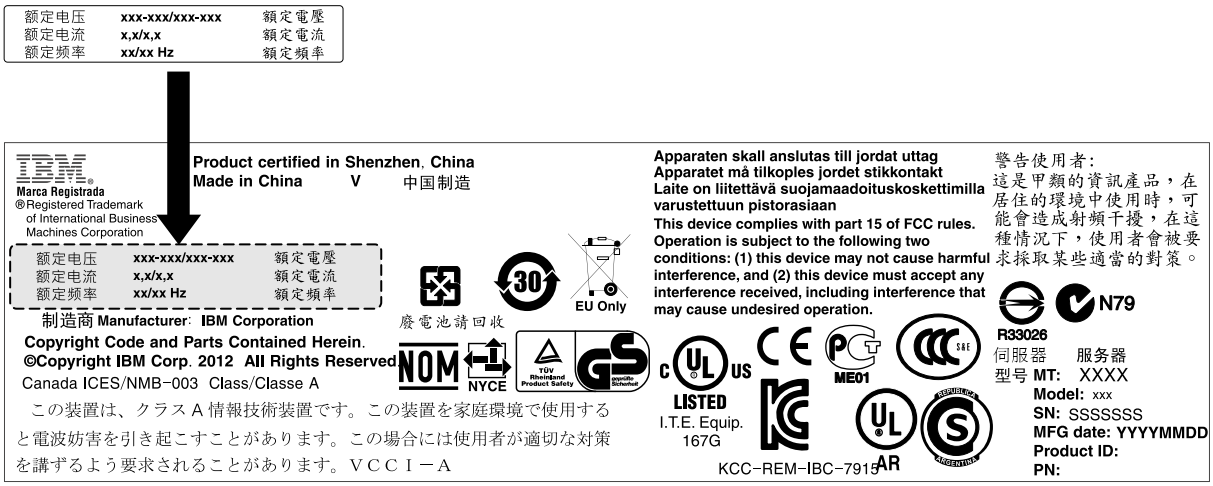



*Figure 78. Power supply replacement*

Step 8. If you are adding a power supply to the server, attach the redundant power information label that comes with this option on the server cover near the power supplies.

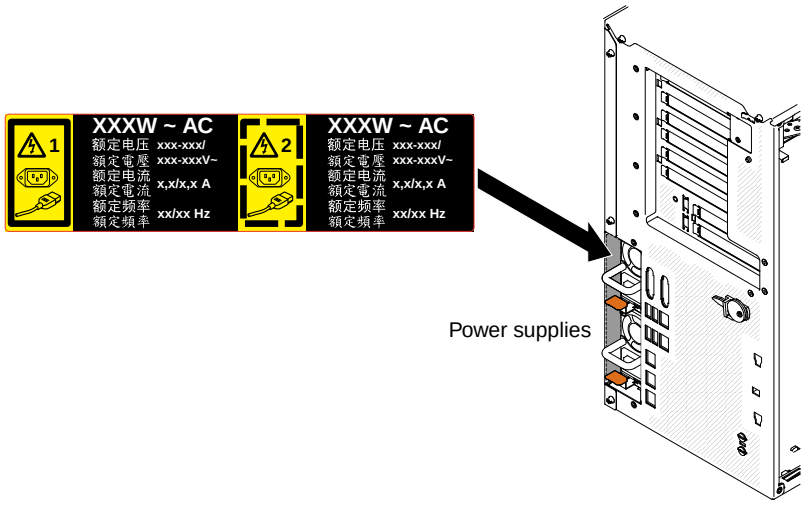



*Figure 79. Attach redundant power information*

## Installing a USB embedded hypervisor flash device

Use this information to install a USB embedded hypervisor flash device.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install a hypervisor flash device, complete the following steps.

Step 1. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 40).

Step 2. Unlock the retention latch by pushing it down toward the system board.

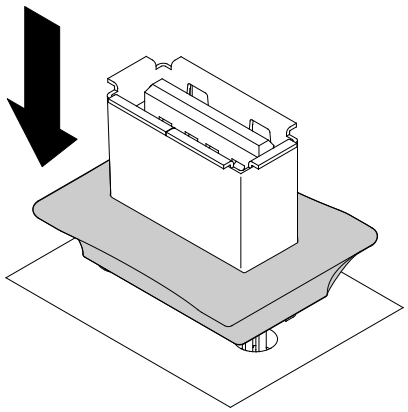


*Figure 80. Unlock retention latch*

Step 3. Align the flash device with the USB connector on the system board and push it into the USB connector until it is firmly seated.

Step 4. Return the retention latch to the locked position by pulling it away from the system board.

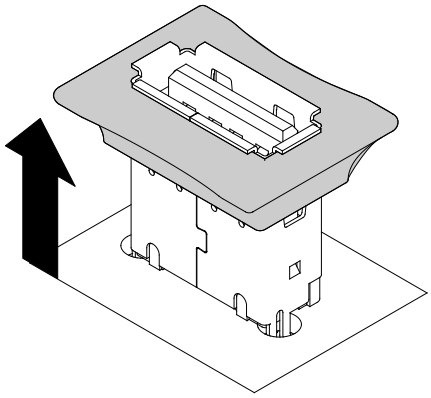


*Figure 81. Return retention latch*

If you have other devices to install or remove, do so now.

## Completing the installation

Use this information to complete the installation.

To complete the installation, complete the following steps.

Step 1. If you removed the fan cage assembly, reinstall it (see “Replacing the fan cage assembly” on page 97).

Step 2. If you removed the air baffle, reinstall it (see “Replacing the air baffle” on page 99).

Step 3. If you removed the server cover, replace it (see “Replacing the left-side cover” on page 99).

Step 4. Reconnect the cables and power cords (see “Connecting the cables” on page 100).

Step 5. Update the server configuration (see “Updating the server configuration” on page 102).

Step 6. Install the server in the rack cabinet (see the *Tower to Rack Installation Instructions* that come with the server for instructions).

Step 7. Slide the server back into the rack, if necessary.

Step 8. Start the server. Confirm that it starts correctly and recognizes the newly installed devices, and make sure that no error LEDs are lit.

Step 9. (Lenovo Business Partners only) Complete the additional steps in “Instructions for Lenovo Business Partners” on page 25.

## Replacing the fan cage assembly

Use this information to replace the fan cage assembly.

**Attention:** Make sure that all wires and cables inside the server are routed correctly before you install the fan cage assembly. Wiring that is not properly routed might be damaged or might prevent the fan cage assembly from seating properly in the server.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

To replace the fan cage assembly, complete the following steps.

Step 1. Align the guides on the fan cage with the release latch to the open position on each side.

Step 2. Push the fan cage assembly into the server.

**Note:** Make sure that the fan cage is fully seated.

Step 3. Rotate the fan cage release latch to the close position. The fan cage will be fully seated when it is secured.

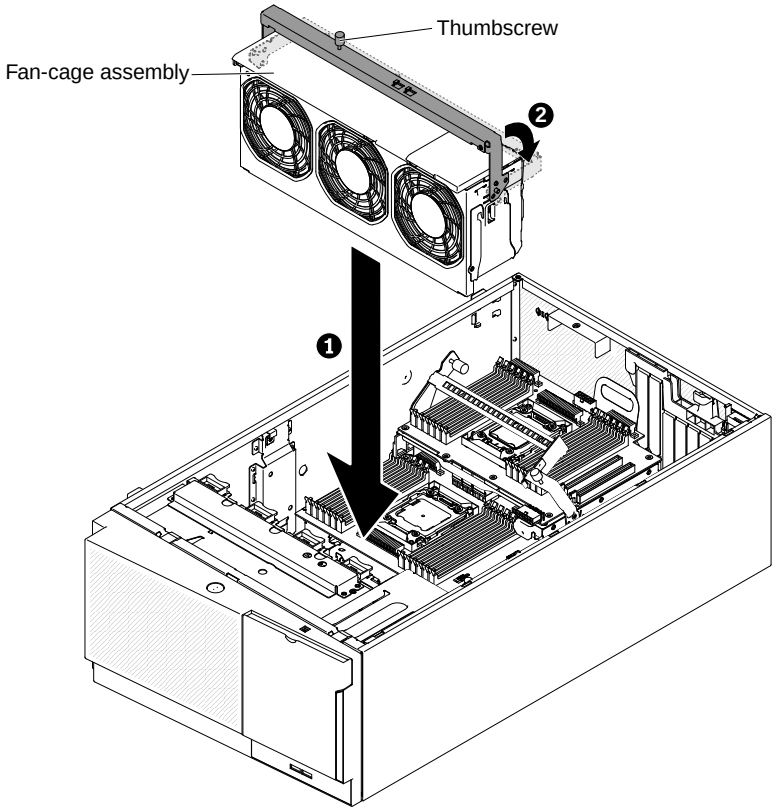



*Figure 82. Rotate the fan cage release latch*

Step 4. Fasten the thumb screw on the fan cage release latch.

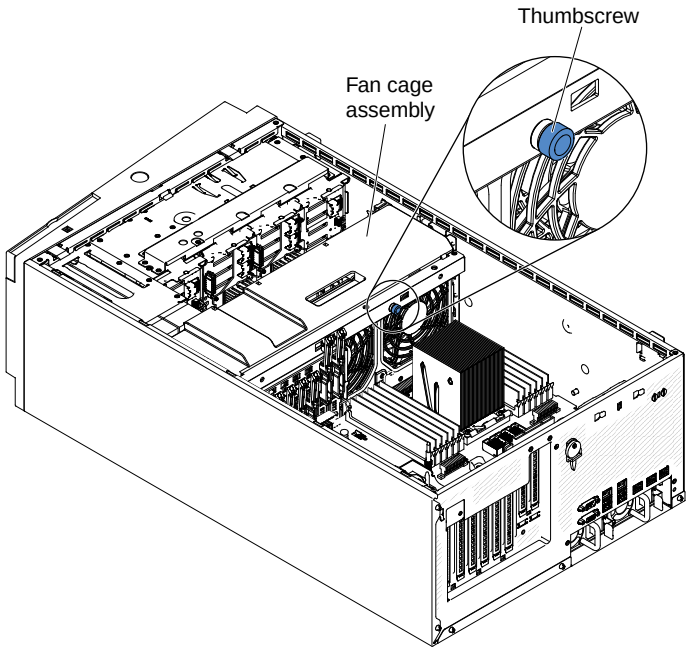



*Figure 83. Fasten the thumb screw*

Step 5. Connect the fan cage assembly power cable to the system board (see “Internal cable routing and connectors” on page 312).

## Replacing the air baffle

Use this information to replace the air baffle.

**Note:** When you install the second microprocessor, you must also install fan 2 and the air baffle that come with the second microprocessor upgrade kit.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

To replace the air baffle (two microprocessors installed), complete the following steps.

Step 1. Slide the air baffle down into the server until the positioning pins fit into the locating holes; then, press down on the air baffle until the pinch tab clicks into place.

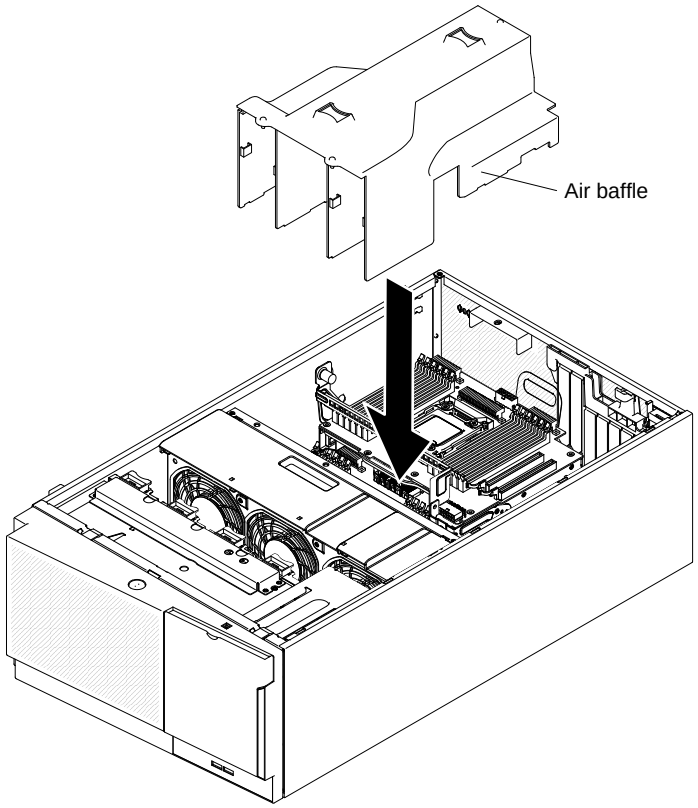



*Figure 84. Air baffle installation*

## Replacing the left-side cover

Use this information to replace the left-side cover.

Make sure that all cables, adapters, and other components are installed and seated correctly and that you have not left loose tools or parts inside the server. Also, make sure that all internal cables are correctly routed.

**Important:** Before you slide the cover forward, make sure that all the tabs on the front, rear, and side of the cover engage the chassis correctly. If all the tabs do not engage the chassis correctly, it will be very difficult to remove the cover later.

To replace the left-side server cover, complete the following steps.

Step 1. Set the bottom edge of the left-side cover on the bottom ledge of the server.

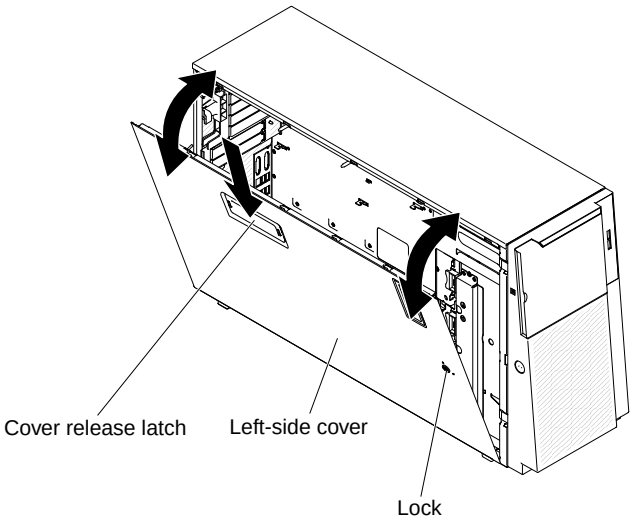



*Figure 85. Set the bottom edge of the left-side cover*

Step 2. Rotate the top edge of the cover toward the server and press inward on the cover until it clicks into place.

Step 3. Lock the cover, using the key that comes with the server.

## Connecting the cables

Use this information to connect the cables.

The following illustration shows the locations of the input and output connectors on the front of the server.

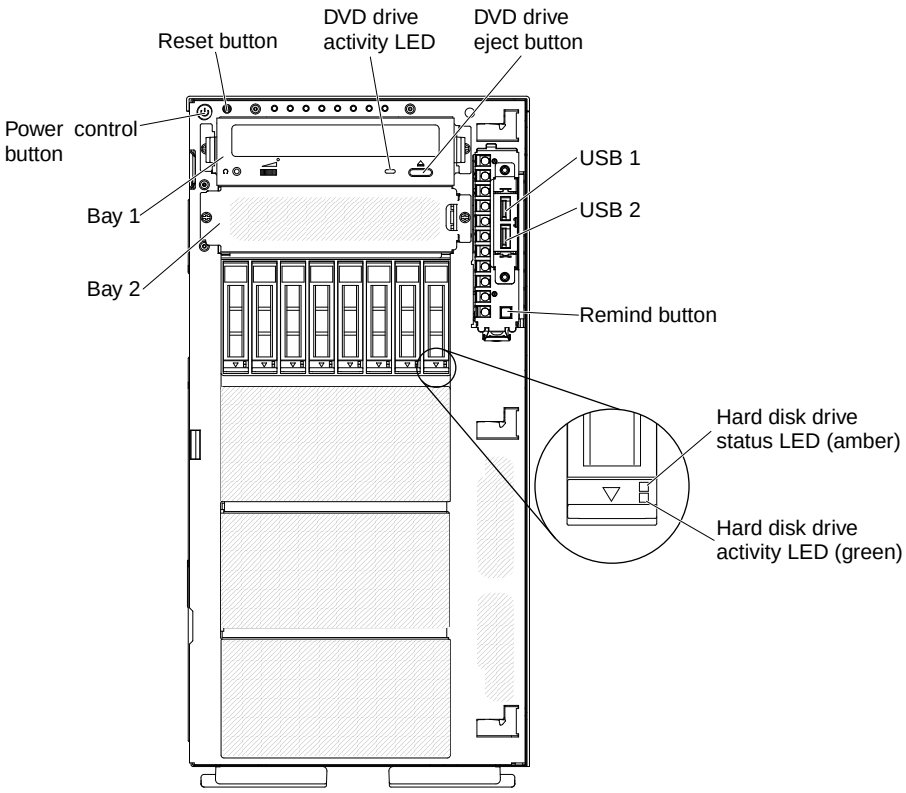



*Figure 86. Front of server*

The following illustration shows the locations of the input and output connectors on the rear of the server.

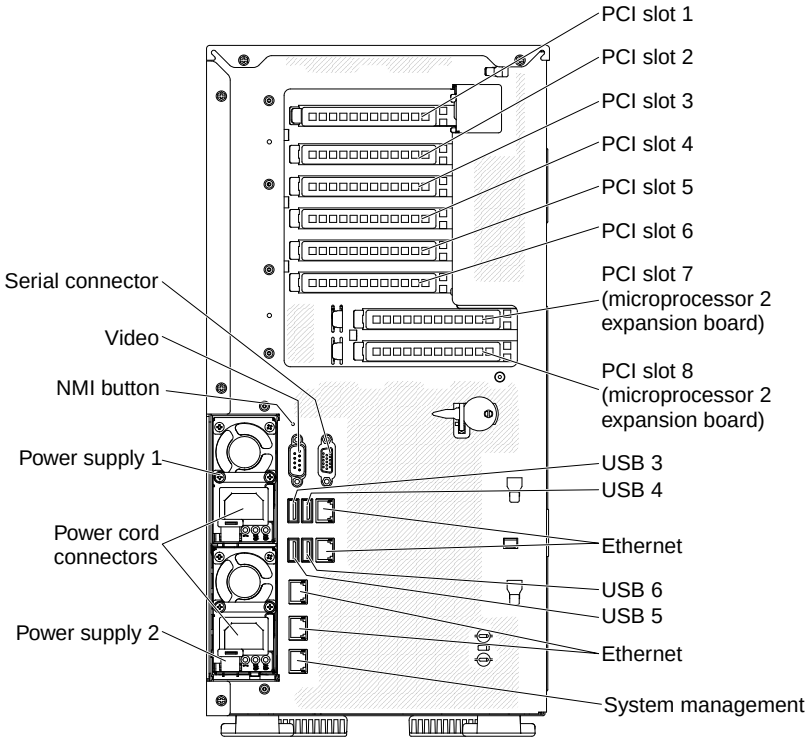



*Figure 87. Rear of server*

Step 1. You must turn off the server before you connect or disconnect cables.

Step 2. See the documentation that comes with any external devices for additional cabling instructions. It might be easier for you to route cables before you connect the devices to the server.

## Updating the server configuration

Use this information to update the server configuration.

When you start the server for the first time after you add or remove a device, you might receive a message that the configuration has changed. The Setup utility starts automatically so that you can save the new configuration settings.

Some optional devices have device drivers that you must install. For information about installing device drivers, see the documentation that comes with each device.

If the server has an optional RAID adapter and you have installed or removed a hard disk drive, see the documentation that comes with the RAID adapter for information about reconfiguring the disk arrays.

For information about configuring the Ethernet controller, see “Configuring the Ethernet controller” on page 118.

# Chapter 3. Configuration information and instructions

This chapter provides information about updating the firmware and using the configuration utilities.

## Updating the firmware

Use this information to update the system firmware.

**Important:**

1. Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
2. Before you update the firmware, be sure to back up any data that is stored in the Trusted Platform Module (TPM), in case any of the TPM characteristics are changed by the new firmware. For instructions, see your encryption software documentation.
3. Installing the wrong firmware or device-driver update might cause the server to malfunction. Before you install a firmware or device-driver update, read any readme and change history files that are provided with the downloaded update. These files contain important information about the update and the procedure for installing the update, including any special procedure for updating from an early firmware or device-driver version to the latest version.

You can install code updates that are packaged as an Update*Xpress* System Pack or Update*Xpress* CD image. An Update*Xpress* System Pack contains an integration-tested bundle of online firmware and device-driver updates for your server. Use Update*Xpress* System Pack Installer to acquire and apply Update*Xpress* System Packs and individual firmware and device-driver updates. For additional information and to download the Update*Xpress* System Pack Installer, go to the ToolsCenter for System x and BladeCenter at https://support.lenovo.com/us/en/ documents/LNVO-CENTER and click **UpdateXpress System Pack Installer**.

When you click an update, an information page is displayed, including a list of the problems that the update fixes. Review this list for your specific problem; however, even if your problem is not listed, installing the update might solve the problem.

Be sure to separately install any listed critical updates that have release dates that are later than the release date of the Update*Xpress* System Pack or Update*Xpress* image.

The firmware for the server is periodically updated and is available for download on the Lenovo website. To check for the latest level of firmware, such as the UEFI firmware, device drivers, and Integrated Management Module II (IMM2) firmware, go to http://www.ibm.com/support/ fixcentral.

Download the latest firmware for the server; then, install the firmware, using the instructions that are included with the downloaded files.

When you replace a device in the server, you might have to update the firmware that is stored in memory on the device or restore the pre-existing firmware from a CD or DVD image.

The following list indicates where the firmware is stored:

- UEFI firmware is stored in ROM on the system board.
- IMM2 firmware is stored in ROM on the system board.
- Ethernet firmware is stored in ROM on the Ethernet controller and on the system board.

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- ServeRAID firmware is stored in ROM on the system board and the RAID adapter (if one is installed).
- SAS/SATA firmware is stored in ROM on the SAS/SATA controller on the system board.

## Configuring the server

The following configuration programs come with the server:

- **Setup utility**

  The Setup utility is part of the UEFI firmware. Use it to perform configuration tasks such as changing interrupt request (IRQ) settings, changing the startup-device sequence, setting the date and time, and setting passwords. For information about using this program, see “Using the Setup utility” on page 107.

- **Boot Manager program**

  The Boot Manager is part of the UEFI firmware. Use it to override the startup sequence that is set in the Setup utility and temporarily assign a device to be first in the startup sequence. For more information about using this program, see “Using the Boot Manager” on page 113.

- **Lenovo *ServerGuide Setup and Installation* CD**

  The ServerGuide program provides software-setup tools and installation tools that are designed for the server. Use this CD during the installation of the server to configure basic hardware features, such as an integrated SAS/SATA controller with RAID capabilities, and to simplify the installation of your operating system. For information about using this CD, see “Using the ServerGuide Setup and Installation CD” on page 105.

- **Integrated Management Module II (IMM2)**

  Use the Integrated Management Module II (IMM2) for configuration, to update the firmware and sensor data record/field replaceable unit (SDR/FRU) data, and to remotely manage a network. For information about using the IMM2, see “Using the Integrated Management Module II (IMM2)” on page 114 and the *Integrated Management Module II User's Guide* at http://www.ibm.com/support/entry/portal/docdisplay?lndocid=migr-5086346.

- **VMware ESXi embedded hypervisor**

  An optional USB flash device with VMware ESXi embedded hypervisor software is available for purchase. Hypervisor is virtualization software that enables multiple operating systems to run on a host system at the same time. The USB embedded hypervisor flash device can be installed in USB connectors 3 and 4 on the system board. For more information about using the embedded hypervisor, see “Using the embedded hypervisor” on page 117.

- **Remote presence capability and blue-screen capture**

  The remote presence and blue-screen capture features are integrated functions of the Integrated Management Module II (IMM2). The remote presence feature provides the following functions:

  – Remotely viewing video with graphics resolutions up to 1600 x 1200 at 75 Hz, regardless of the system state

  – Remotely accessing the server, using the keyboard and mouse from a remote client

  – Mapping the CD or DVD drive, diskette drive, and USB flash drive on a remote client, and mapping ISO and diskette image files as virtual drives that are available for use by the server

  – Uploading a diskette image to the IMM2 memory and mapping it to the server as a virtual drive

  The blue-screen capture feature captures the video display contents before the IMM2 restarts the server when the IMM2 detects an operating-system hang condition. A system administrator can use the blue-screen capture feature to assist in determining the cause of the hang condition. For more information, see “Using the remote presence and blue-screen capture features” on page 115.

- **Ethernet controller configuration**

  For information about configuring the Ethernet controller, see “Configuring the Ethernet controller” on page 118.

- **Features on Demand software Ethernet software**

  The server provides Features on Demand software Ethernet support. You can purchase a Features on Demand software upgrade key for Fibre Channel over Ethernet (FCoE) and iSCSI storage protocols. For more information, see “Enabling Features on Demand Ethernet software” on page 118.

- **Features on Demand software RAID software**

  The server provides Features on Demand software RAID support. You can purchase a Features on Demand software upgrade key for RAID. For more information, see “Enabling Features on Demand RAID software” on page 118.

- **IBM Advanced Settings Utility (ASU) program**

  Use this program as an alternative to the Setup utility for modifying UEFI settings and IMM2 settings. Use the ASU program online or out of band to modify UEFI settings from the command line without the need to restart the server to run the Setup utility. For more information about using this program, see “Advanced Settings Utility program” on page 119.

- **Configuring RAID arrays**

  For information about configuring RAID arrays, see “Configuring RAID arrays” on page 118.

  The following table lists the different server configurations and the applications that are available for configuring and managing the RAID arrays.

*Table 9. Server configuration and applications for configuring and managing the RAID arrays*

| Server configuration | RAID array configuration (before operating system is installed) | RAID array management (after operating system is installed) |
|---|---|---|
| ServeRAID-M1115 adapter | MegaRAID BIOS Configuration Utility (press Ctrl+H to start), pre-boot CLI (press Ctrl+P to start), ServerGuide, HII | MegaRAID Storage Manager (MSM), MegaCLI (Command Line Interface), and IBM Director |
| ServeRAID-M5110 adapter | MegaRAID BIOS Configuration Utility (press Ctrl+H to start), pre-boot CLI (press Ctrl+P to start), ServerGuide, HII | MegaRAID Storage Manager (MSM), MegaCLI, and IBM Director |
| ServeRAID-M5120 adapter | MegaRAID BIOS Configuration Utility (press Ctrl+H to start), pre-boot CLI (press Ctrl+P to start), ServerGuide, HII | MegaRAID Storage Manager (MSM), MegaCLI, and IBM Director |

**Notes:**

1. For more information about the Human Interface Infrastructure (HII) and SAS2IRCU, go to http://www.ibm.com/support/entry/portal/docdisplay?lndocid=MIGR-5088601.
2. For more information about the MegaRAID, go to http://www.ibm.com/support/entry/portal/docdisplay?lndocid=MIGR-5073015.

## Using the ServerGuide Setup and Installation CD

Use this information as an overview for using the ServerGuide Setup and Installation CD.

The *ServerGuide Setup and Installation* CD provides software setup tools and installation tools that are designed for your server. The ServerGuide program detects the server model and optional hardware devices that are installed and uses that information during setup to configure the hardware. The ServerGuide

simplifies the operating-system installations by providing updated device drivers and, in some cases, installing them automatically.

You can download a free image of the *ServerGuide Setup and Installation CD* from http://www.ibm.com/support/entry/portal/ docdisplay?lndocid=SERV-GUIDE.

In addition to the *ServerGuide Setup and Installation* CD, you must have your operating-system CD to install the operating system.

## ServerGuide features

This information provides an overview of the ServerGuide features.

Features and functions can vary slightly with different versions of the ServerGuide program. To learn more about the version that you have, start the *ServerGuide Setup and Installation* CD and view the online overview. Not all features are supported on all server models.

The ServerGuide program has the following features:
- An easy-to-use interface
- Diskette-free setup, and configuration programs that are based on detected hardware
- Device drivers that are provided for the server model and detected hardware
- Operating-system partition size and file-system type that are selectable during setup

The ServerGuide program performs the following tasks:
- Sets system date and time
- Detects installed hardware options and provides updated device drivers for most adapters and devices
- Provides diskette-free installation for supported Windows operating systems
- Includes an online readme file with links to tips for your hardware and operating-system installation

## Setup and configuration overview

Use this information for the ServerGuide setup and configuration.

When you use the *ServerGuide Setup and Installation* CD, you do not need setup diskettes. You can use the CD to configure any supported Lenovo server model. The setup program provides a list of tasks that are required to set up your server model. On a server with a ServeRAID adapter or SAS/SATA controller with RAID capabilities, you can run the SAS/SATA RAID configuration program to create logical drives.

**Note:** Features and functions can vary slightly with different versions of the ServerGuide program.

## Typical operating-system installation

This section details the ServerGuide typical operating-system installation.

The ServerGuide program can reduce the time it takes to install an operating system. It provides the device drivers that are required for your hardware and for the operating system that you are installing. This section describes a typical ServerGuide operating-system installation.

**Note:** Features and functions can vary slightly with different versions of the ServerGuide program.

1. After you have completed the setup process, the operating-system installation program starts. (You will need your operating-system CD to complete the installation.)
2. The ServerGuide program stores information about the server model, service processor, hard disk drive controllers, and network adapters. Then, the program checks the CD for newer device drivers. This information is stored and then passed to the operating-system installation program.
3. The ServerGuide program presents operating-system partition options that are based on your operating-system selection and the installed hard disk drives.

4. The ServerGuide program prompts you to insert your operating-system CD and restart the server. At this point, the installation program for the operating system takes control to complete the installation.

### Installing your operating system without using ServerGuide

Use this information to install the operating system on the server without using ServerGuide.

If you have already configured the server hardware and you are not using the ServerGuide program to install your operating system, you can download operating-system installation instructions for the server from http://www.lenovo.com/support.

## Using the Setup utility

Use these instructions to start the Setup utility.

Use the Unified Extensible Firmware Interface (UEFI) Setup Utility program to perform the following tasks:

- View configuration information
- View and change assignments for devices and I/O ports
- Set the date and time
- Set and change passwords
- Set the startup characteristics of the server and the order of startup devices
- Set and change settings for advanced hardware features
- View, set, and change settings for power-management features
- View and clear error logs
- Change interrupt request (IRQ) settings
- Resolve configuration conflicts

### Starting the Setup utility

Use this information to start up the Setup utility.

To start the Setup utility, complete the following steps:

Step 1. Turn on the server.

**Note:** Approximately 5 to 10 seconds after the server is connected to power, the power-control button becomes active.

Step 2. When the prompt **<F1> Setup** is displayed, press F1. If you have set an administrator password, you must type the administrator password to access the full Setup utility menu. If you do not type the administrator password, a limited Setup utility menu is available.

Step 3. Select settings to view or change.

### Setup utility menu choices

Use the Setup utility main menu to view and configure server configuration data and settings.

The following choices are on the Setup utility main menu for the UEFI. Depending on the version of the firmware, some menu choices might differ slightly from these descriptions.

- **System Information**

  Select this choice to view information about the server. When you make changes through other choices in the Setup utility, some of those changes are reflected in the system information; you cannot change settings directly in the system information. This choice is on the full Setup utility menu only.

– **System Summary**

  Select this choice to view configuration information, including the ID, speed, and cache size of the microprocessors, machine type and model of the server, the serial number, the system UUID, and the amount of installed memory. When you make configuration changes through other options in the Setup utility, the changes are reflected in the system summary; you cannot change settings directly in the system summary.

– **Product Data**

  Select this choice to view the system-board identifier, the revision level or issue date of the firmware, the Integrated Management Module II (IMM2) and diagnostics code, and the version and date.

This choice is on the full Setup utility menu only.

- **System Settings**

  Select this choice to view or change the server component settings.

  – **Adapters and UEFI Drivers**

    Select this choice to view information about the UEFI 1.10 and UEFI 2.0 compliant adapters and drivers installed in the server.

  – **Processors**

    Select this choice to view or change the processor settings.

  – **Memory**

    Select this choice to view or change the memory settings.

  – **Devices and I/O Ports**

    Select this choice to view or change assignments for devices and input/output (I/O) ports. You can configure the serial ports, configure remote console redirection, enable or disable integrated Ethernet controllers, the SAS/SATA controllers, SATA optical drive channels, PCI slots, and video controller. If you disable a device, it cannot be configured, and the operating system will not be able to detect it (this is equivalent to disconnecting the device).

  – **Power**

    Select this choice to view or change power capping to control consumption, processors, and performance states.

  – **Operating Modes**

    Select this choice to view or change the operating profile (performance and power utilization).

  – **Legacy Support**

    Select this choice to view or set legacy support.

    **Note:** In the legacy mode, this system has limited ROM space for installed options. At most four network interface cards (NICs) are supported for legacy PXE boot. If more than four NICs are installed, legacy PXE boot will not be attempted on some of the NICs. To enable legacy PXE boot on the desired NIC connectors, prioritize the desired NIC connectors by changing the **Rom execution Order** or disable the NIC connectors that you do not use from **Enable/Disable Adapter Option ROM Support** menu.

    – **Force Legacy Video on Boot**

      Select this choice to force INT video support, if the operating system does not support UEFI video output standards.

    – **Rehook INT 19h**

      Select this choice to enable or disable devices from taking control of the boot process. The default is **Disable**.

    – **Legacy Thunk Support**

Select this choice to enable or disable UEFI to interact with PCI mass storage devices that are non-UEFI compliant. The default is **Enable**.

- **Infinite Boot Retry**

  Select this choice to enable or disable UEFI to infinitely retry the legacy boot order. The default is **Disable**.

- **BBS Boot**

  Select this choice to enable or disable legacy boot in BBS manner. The default is **Enable**.

- **System Security**

  Select this choice to view or configure Trusted Platform Module (TPM) support.

- **Integrated Management Module II (IMM2)**

  Select this choice to view or change the settings for the Integrated Management Module II (IMM2).

  - **Power Restore Policy**

    Select this choice to set the mode of operation after the power lost.

  - **Commands on USB Interface**

    Select this choice to enable or disable the Ethernet over USB interface on IMM2. The default is **Enable**.

  - **Network Configuration**

    Select this choice to view the system management network interface port, the IMM2 MAC address, the current IMM2 IP address, and host name; define the static IMM2 IP address, subnet mask, and gateway address, specify whether to use the static IP address or have DHCP assign the IMM2 IP address, save the network changes, and reset the IMM2.

  - **Reset IMM2 to Defaults**

    Select this choice to view or reset IMM2 to the default settings.

  - **Reset IMM2**

    Select this choice to reset IMM2.

- **Recovery**

  Select this choice to view or change the system recovery parameters.

  - **POST Attempts**

    Select this choice to view or change the number of attempts to POST.

    - **POST Attempts Limit**

      Select this choice to view or change the Nx boot failure parameters.

  - **System Recovery**

    Select this choice to view or change system recovery settings.

    - **POST Watchdog Timer**

      Select this choice to view or enable the POST watchdog timer.

    - **POST Watchdog Timer Value**

      Select this choice to view or set the POST loader watchdog timer value.

    - **Reboot System on NMI**

      Select this choice to enable or disable restarting the system whenever a nonmaskable interrupt (NMI) occurs. **Enable** is the default.

    - **Halt on Severe Error**

Select this choice to enable or disable the system from booting into OS, displaying the POST event viewer whenever a severe error was detected. **Disable** is the default.

- **Storage**

  Select this choice to view or change the storage device settings.

- **Network**

  Select this choice to view or change the network device options, such as iSCSI.

- **Drive Health**

  Select this choice to view the status of the controllers installed in the blade server.

- **Date and Time**

  Select this choice to set the date and time in the server, in 24-hour format (*hour*:*minute*:*second*).

  This choice is on the full Setup utility menu only.

- **Start Options**

  Select this choice to view or change the start options, including the startup sequence, keyboard NumLock state, PXE boot option, and PCI device boot priority. Changes in the startup options take effect when you start the server.

  The startup sequence specifies the order in which the server checks devices to find a boot record. The server starts from the first boot record that it finds. If the server has Wake on LAN hardware and software and the operating system supports Wake on LAN functions, you can specify a startup sequence for the Wake on LAN functions. For example, you can define a startup sequence that checks for a disc in the CD-RW/DVD drive, then checks the hard disk drive, and then checks a network adapter.

  This choice is on the full Setup utility menu only.

- **Boot Manager**

  Select this choice to view, add, delete, or change the device boot priority, boot from a file, select a one-time boot, or reset the boot order to the default setting.

- **System Event Logs**

  Select this choice to enter the System Event Manager, where you can view the POST event log and the system-event log. You can use the arrow keys to move between pages in the error log. This choice is on the full Setup utility menu only.

  The POST event log contains the most recent error codes and messages that were generated during POST.

  The system-event log contains POST and system management interrupt (SMI) events and all events that are generated by the baseboard management controller that is embedded in the Integrated Management Module II (IMM2).

  **Important:** If the system-error LED on the front of the server is lit but there are no other error indications, clear the system-event log. Also, after you complete a repair or correct an error, clear the system-event log to turn off the system-error LED on the front of the server.

  - **POST Event Viewer**

    Select this choice to enter the POST event viewer to view the POST error messages.

  - **System Event Log**

    Select this choice to view the system event log.

  - **Clear System Event Log**

    Select this choice to clear the system event log.

- **User Security**

  Select this choice to set, change, or clear passwords. See “Passwords” on page 111 for more information.

  This choice is on the full and limited Setup utility menu.

- **Set Power-on Password**

  Select this choice to set or change a power-on password. See “Power-on password” on page 111 for more information.

- **Clear Power-on Password**

  Select this choice to clear a power-on password. See “Power-on password” on page 111 for more information.

- **Set Administrator Password**

  Select this choice to set or change an administrator password. An administrator password is intended to be used by a system administrator; it limits access to the full Setup utility menu. If an administrator password is set, the full Setup utility menu is available only if you type the administrator password at the password prompt. See “Administrator password” on page 113 for more information.

- **Clear Administrator Password**

  Select this choice to clear an administrator password. See “Administrator password” on page 113 for more information.

- **Save Settings**

  Select this choice to save the changes that you have made in the settings.

- **Restore Settings**

  Select this choice to cancel the changes that you have made in the settings and restore the previous settings.

- **Load Default Settings**

  Select this choice to cancel the changes that you have made in the settings and restore the factory settings.

- **Exit Setup**

  Select this choice to exit from the Setup utility. If you have not saved the changes that you have made in the settings, you are asked whether you want to save the changes or exit without saving them.

## Passwords

From the **User Security** menu choice, you can set, change, and delete a power-on password and an administrator password.

The **User Security** menu choice is on the full Setup utility menu only.

If you set only a power-on password, you must type the power-on password to complete the system startup and to have access to the full Setup utility menu.

An administrator password is intended to be used by a system administrator; it limits access to the full Setup utility menu. If you set only an administrator password, you do not have to type a password to complete the system startup, but you must type the administrator password to access the Setup utility menu.

If you set a power-on password for a user and an administrator password for a system administrator, you must type the power-on password to complete the system startup. A system administrator who types the administrator password has access to the full Setup utility menu; the system administrator can give the user authority to set, change, and delete the power-on password. A user who types the power-on password has access to only the limited Setup utility menu; the user can set, change, and delete the power-on password, if the system administrator has given the user that authority.

### Power-on password

If a power-on password is set, when you turn on the server, you must type the power-on password to complete the system startup. You can use any combination of 6 - 20 printable ASCII characters for the password.

When a power-on password is set, you can enable the Unattended Start mode, in which the keyboard and mouse remain locked but the operating system can start. You can unlock the keyboard and mouse by typing the power-on password.

If you forget the power-on password, you can regain access to the server in any of the following ways:

- If an administrator password is set, type the administrator password at the password prompt. Start the Setup utility and reset the power-on password.

  **Attention:** If you set an administrator password and then forget it, there is no way to change, override, or remove it. You must replace the system board.
- Remove the battery from the server, wait 30 seconds, and then reinstall it.
- Change the position of the power-on password switch (enable switch 3 of the system board switch block (SW4) to bypass the password check (see “System-board switches and jumpers” on page 29 for more information).

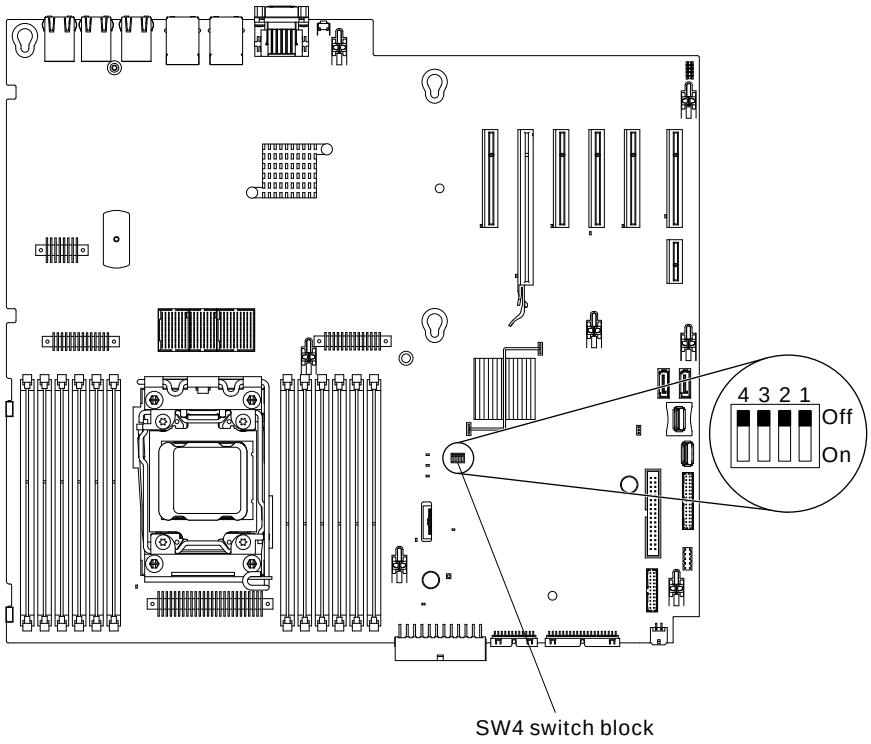


*Figure 88. Power-on password switch*

**Attention:** Before you change any switch settings or move any jumpers, turn off the server; then, disconnect all power cords and external cables. See the safety information that begins “Safety” on page v. Do not change settings or move jumpers on any system-board switch or jumper blocks that are not shown in this document.

The default for all of the switches on switch block SW3 is Off.

While the server is turned off, move switch 4 of the switch block SW3 to the On position to enable the power-on password override. You can then start the Setup utility and reset the power-on password. You do not have to return the switch to the previous position.

The power-on password override switch does not affect the administrator password.

**Administrator password**
If an administrator password is set, you must type the administrator password for access to the full Setup utility menu. You can use any combination of 6 to 20 printable ASCII characters for the password.

**Attention:** If you set an administrator password and then forget it, there is no way to change, override, or remove it. You must replace the system board.

## Using the Boot Manager

Use this information for the Boot Manager.

The Boot Manager program is a built-in, menu-driven configuration utility program that you can use to temporarily redefine the first startup device without changing settings in the Setup utility.

To use the Boot Manager program, complete the following steps:

Step 1. Turn off the server.

Step 2. Restart the server.

Step 3. When the prompt `<F12> Select Boot Device` is displayed, press `F12`.

Step 4. Use the Up arrow and Down arrow keys to select an item from the menu and press Enter.

The next time the server starts, it returns to the startup sequence that is set in the Setup utility.

## Starting the backup server firmware

Use this information to start the backup server firmware.

The system board contains a backup copy area for the server firmware. This is a secondary copy of the server firmware that you update only during the process of updating the server firmware. If the primary copy of the server firmware becomes damaged, use this backup copy.

To force the server to start from the backup copy, turn off the server; then, change the position of the UEFI boot backup switch (change switch 1 of the SW4 to the on position) to enable the UEFI recovery mode.

Use the backup copy of the server firmware until the primary copy is restored. After the primary copy is restored, turn off the server; then, change back the position of the UEFI boot backup switch (change switch 1 of the SW4 to the off position).

## The Update*Xpress* System Pack Installer

The Update*Xpress* System Pack Installer detects supported and installed device drivers and firmware in the server and installs available updates.

For additional information and to download the Update*Xpress* System Pack Installer, go to the ToolsCenter for System x and BladeCenter at http://publib.boulder.ibm.com/infocenter/toolsctr/v1r0/ and click **UpdateXpress System Pack Installer**.

## Changing the Power Policy option to the default settings after loading UEFI defaults

The default settings for the Power Policy option are set by the IMM2.

To change the Power Policy option to the default settings, complete the following steps.

Step 1. Turn on the server.

**Note:** Approximately 20 seconds after the server is connected to AC power, the power-control button becomes active.

Step 2. When the prompt `<F1> Setup` is displayed, press `F1`. If you have set an administrator password, you must type the administrator password to access the full Setup utility menu. If you do not type the administrator password, a limited Setup utility menu is available.

Step 3. Select **System Settings → Integrated Management Module**, then set **Power Restore Policy** setting to `Restore`.

Step 4. Go back to **System Configuration and Boot Management → Save Settings**.

Step 5. Go back and check the **Power Policy** setting to verify that it is set to `Restore` (the default).

**Attention:** If you set an administrator password and then forget it, there is no way to change, override, or remove it. You must replace the system board.

## Using the Integrated Management Module II (IMM2)

The Integrated Management Module II (IMM2) is a second generation of the functions that were formerly provided by the baseboard management controller hardware. It combines service processor functions, video controller, and remote presence function in a single chip.

The IMM2 supports the following basic systems-management features:

- Active Energy Manager.
- Alerts (in-band and out-of-band alerting, PET traps - IPMI style, SNMP, e-mail).
- Auto Boot Failure Recovery (ABR).
- Automatic microprocessor disable on failure and restart in a two-microprocessor configuration when one microprocessor signals an internal error. When one of the microprocessors fail, the server will disable the failing microprocessor and restart with the other microprocessor.
- Automatic Server Restart (ASR) when POST is not complete or the operating system hangs and the operating system watchdog timer times-out. The IMM2 might be configured to watch for the operating system watchdog timer and reboot the system after a timeout, if the ASR feature is enabled. Otherwise, the IMM2 allows the administrator to generate a nonmaskable interrupt (NMI) by pressing an NMI button on the light path diagnostics panel for an operating-system memory dump. ASR is supported by IPMI.
- A virtual media key, which enables remote presence support (remote video, remote keyboard/mouse, and remote storage).
- Boot sequence manipulation.
- Command-line interface.
- Configuration save and restore.
- DIMM error assistance. The Unified Extensible Firmware Interface (UEFI) disables a failing DIMM that is detected during POST, and the IMM2 lights the associated system error LED and the failing DIMM error LED.
- Environmental monitor with fan speed control for temperature, voltages, fan failure, power supply failure, and power backplane failure.
- Intelligent Platform Management Interface (IPMI) Specification V2.0 and Intelligent Platform Management Bus (IPMB) support.
- Invalid system configuration (CONFIG) LED support.
- Light path diagnostics LEDs indicators to report errors that occur with fans, power supplies, microprocessor, hard disk drives, and system errors.
- Local firmware code flash update
- Nonmaskable interrupt (NMI) detection and reporting.

- Operating-system failure blue screen capture.
- PCI configuration data.
- Power/reset control (power-on, hard and soft shutdown, hard and soft reset, schedule power control).
- Query power-supply input power.
- ROM-based IMM2 firmware flash updates.
- Serial over LAN (SOL).
- Serial port redirection over telnet or ssh.
- SMI handling
- System event log (SEL) - user readable event log.

The IMM2 also provides the following remote server management capabilities through the ipmitool, a management utility program:

- **Command-line interface (IPMI Shell)**

  The command-line interface provides direct access to server management functions through the IPMI 2.0 protocol. Use the command-line interface to issue commands to control the server power, view system information, and identify the server. You can also save one or more commands as a text file and run the file as a script.
- **Serial over LAN**

  Establish a Serial over LAN (SOL) connection to manage servers from a remote location. You can remotely view and change the UEFI settings, restart the server, identify the server, and perform other management functions. Any standard Telnet client application can access the SOL connection.

For more information about IMM2, see the *Integrated Management Module II User's Guide* at http://www.ibm.com/support/entry/portal/docdisplay?lndocid=migr-5086346.

## Using the remote presence and blue-screen capture features

The remote presence and blue-screen capture features are integrated functions of the Integrated Management Module II (IMM2).

The remote presence feature provides the following functions:

- Remotely viewing video with graphics resolutions up to 1600 x 1200 at 75 Hz, regardless of the system state
- Remotely accessing the server, using the keyboard and mouse from a remote client
- Mapping the CD or DVD drive, diskette drive, and USB flash drive on a remote client, and mapping ISO and diskette image files as virtual drives that are available for use by the server
- Uploading a diskette image to the IMM2 memory and mapping it to the server as a virtual drive

The blue-screen capture feature captures the video display contents before the IMM2 restarts the server when the IMM2 detects an operating-system hang condition. A system administrator can use the blue-screen capture to assist in determining the cause of the hang condition.

### Obtaining the IMM2 host name

Use this information to obtain the IMM2 host name.

If you are logging on to the IMM2 for the first time after installation, the IMM2 defaults to DHCP. If a DHCP server is not available, the IMM2 uses a static IP address of 192.168.70.125. The default IPv4 host name is “IMM-” (plus the last 12 characters on the IMM2 MAC address). The default host name also comes on the

IMM2 network access tag that comes attached to the power supply on the rear of the server. The IMM2 network access tag provides the default host name of the IMM2 and does not require you to start the server.

The IPv6 link-local address (LLA) is derived from the IMM2 default host name. The IMM2 LLA is on the IMM2 network access tag is on the power supply on the rear of the server. To derive the link-local address, complete the following steps:

Step 1. Take the last 12 characters on the IMM2 MAC address (for example, 5CF3FC5EAAD0).

Step 2. Separate the number into pairs of hexadecimal characters (for example, 5C:F3:FC:5E:AA:D0).

Step 3. Separate the first six and last six hexadecimal characters.

Step 4. Add “FF” and “FE” in the middle of the 12 characters (for example, 5C F3 FC FF FE 5E AA D0).

Step 5. Convert the first pair of hexadecimal characters to binary (for example, 5=0101, C=1100, which results in 01011100 F3 FC FF FE 5E AA D0).

Step 6. Flip the 7th binary character from left (0 to 1 or 1 to 0), which results in 01011110 F3 FF FE 5E AA D0.

Step 7. Convert the binary back to hexadecimal (for example, 5E F3FCFFFE5EAAD0).

## Obtaining the IP address for the IMM2

Use this information to obtain the IP address for the IMM2.

To access the web interface to use the remote presence feature, you need the IP address or host name of the IMM2. You can obtain the IMM2 IP address through the Setup utility and you can obtain the IMM2 host name from the IMM2 network access tag. The server comes with a default IP address for the IMM2 of 192.168.70.125.

To obtain the IP address, complete the following steps:

Step 1. Turn off the server.

**Note:** Approximately 5 to 10 seconds after the server is connected to power, the power-control button becomes active.

Step 2. When the prompt `<F1> Setup` is displayed, press `F1`. (This prompt is displayed on the screen for only a few seconds. You must press `F1` quickly.) If you have set both a power-on password and an administrator password, you must type the administrator password to access the full Setup utility menu.

Step 3. From the Setup utility main menu, select **System Settings**.

Step 4. On the next screen, select **Integrated Management Module**.

Step 5. On the next screen, select **Network Configuration**.

Step 6. Find the IP address and write it down.

Step 7. Exit from the Setup utility.

## Logging on to the web interface

Use this information to log on to the web interface.

To log on to the IMM2 web interface, complete the following steps:

Step 1. On a system that is connected to the server, open a web browser. In the **Address** or **URL** field, type the IP address or host name of the IMM2 to which you want to connect.

**Note:** If you are logging on to the IMM2 for the first time after installation, the IMM2 defaults to DHCP. If a DHCP host is not available, the IMM2 assigns a static IP address of 192.168.70.125.

The IMM2 network access tag provides the default host name of the IMM2 and does not require you to start the server.

Step 2. On the Login page, type the user name and password. If you are using the IMM2 for the first time, you can obtain the user name and password from your system administrator. All login attempts are documented in the system-event log.

**Note:** The IMM2 is set initially with a user name of USERID and password of PASSW0RD (with a zero, not a the letter O). You have read/write access. You must change the default password the first time you log on.

Step 3. Click **Log in** to start the session. The System Status and Health page provides a quick view of the system status.

**Note:** If you boot to the operating system while in the IMM2 GUI and the message "Booting OS or in unsupported OS" is displayed under **System Status → System State**, disable Windows 2008 or 2012 firewall or type the following command in the Windows 2008 or 2012 console. This might also affect blue-screen capture features.

```
netsh firewall set icmpsetting type=8 mode=ENABLE
```

By default, the icmp packet is blocked by Windows firewall. The IMM2 GUI will then change to "OS booted" status after you change the setting as indicated above in both the Web and CLI interfaces.

## Using the embedded hypervisor

The VMware ESXi embedded hypervisor software is available on the optional Lenovo USB flash device with embedded hypervisor.

The USB flash device can be installed in USB connectors on the system board (see "Internal cable routing and connectors" on page 312 for the location of the connectors). Hypervisor is virtualization software that enables multiple operating systems to run on a host system at the same time. The USB flash device is required to activate the hypervisor functions.

To start using the embedded hypervisor functions, you must add the USB flash device to the startup sequence in the Setup utility.

To add the USB flash device to the startup sequence, complete the following steps:

Step 1. Turn on the server.

**Note:** Approximately 5 to 10 seconds after the server is connected to power, the power-control button becomes active.

Step 2. When the prompt `<F1> Setup` is displayed, press `F1`.

Step 3. From the Setup utility main menu, select **Boot Manager**.

Step 4. Select **Add Boot Option**; then, select **Generic Boot Option → Embedded Hypervisor**. Press Enter, and then select Esc.

Step 5. Select **Change Boot Order → Change the order**. Use the Up arrow and Down Arrow keys to select **Embedded Hypervisor** and use the plus (+) and minus (-) keys to move Embedded Hypervisor in the boot order. When **Embedded Hypervisor** is in the correct location in the boot order, press Enter. Select **Commit Changes** and press Enter.

Step 6. Select **Save Settings** and then select **Exit Setup**.

If the embedded hypervisor flash device image becomes corrupt, you can download the image from http://www.ibm.com/systems/x/os/vmware/esxi/.

For additional information and instructions, see VMware vSphere 4.1 Documentation at http://www.vmware.com/support/pubs/vs_pages/vsp_pubs_esxi41_e_vc41.html or the *VMware vSphere Installation and Setup Guide* at http://pubs.vmware.com/vsphere-50/topic/ com.vmware.ICbase/PDF/ vsphere-esxi-vcenter-server-50-installation-setup-guide.pdf.

## Configuring the Ethernet controller

Use this information to configure the Ethernet controller.

The Ethernet controllers are integrated on the system board. They provide an interface for connecting to a 10 Mbps, 100 Mbps, or 1 Gbps network and provide full-duplex (FDX) capability, which enables simultaneous transmission and reception of data on the network. If the Ethernet ports in the server support auto-negotiation, the controllers detect the data-transfer rate (10BASE-T, 100BASE-TX, or 1000BASE-T) and duplex mode (full-duplex or half-duplex) of the network and automatically operate at that rate and mode.

You do not have to set any jumpers or configure the controllers. However, you must install a device driver to enable the operating system to address the controllers.

To find device drivers and information about configuring the Ethernet controllers, go to http://www.lenovo.com/support.

## Enabling Features on Demand Ethernet software

Use this information to enable Features on Demand Ethernet software.

You can activate the Features on Demand (FoD) software upgrade key for Fibre Channel over Ethernet (FCoE) and iSCSI storage protocols that is integrated in the Integrated Management Module II (IMM2). For more information and instructions for activating the Features on Demand Ethernet software key, see the *Lenovo Features on Demand User's Guide*. To download the document, go to http://www.ibm.com/systems/x/fod/, log in, and click **Help**.

## Enabling Features on Demand RAID software

Use this information to enable Features on Demand RAID software.

You can activate the Features on Demand (FoD) software upgrade key for RAID that is integrated in the integrated management module. For more information and instructions for activating the Features on Demand RAID software key, see the *Lenovo Features on Demand User's Guide*. To download the document, go to http://www.ibm.com/systems/x/fod/, log in, and click **Help**.

## Configuring RAID arrays

Use the Setup utility to configure the RAID arrays.

The specific procedure for configuring arrays depends on the RAID controller that you are using. For details, see the documentation for your RAID controller. To access the utility for your RAID controller, complete the following steps:

Step 1. Turn on the server.

**Note:** Approximately 10 seconds after the server is connected to power, the power-control button becomes active.

Step 2. When prompted, `<F1 Setup>` is displayed, press F1. If you have set an administrator password, you must type the administrator password to access the full Setup utility menu. If you do not type the administrator password, a limited Setup utility menu is available.

Step 3. Select **System Settings → Storage**.

Step 4. Press Enter to refresh the list of device drivers.

Step 5. Select the device driver for your RAID controller and press Enter.

Step 6. Follow the instructions in the documentation for your RAID controller.

## Advanced Settings Utility program

The Advanced Settings Utility (ASU) program is an alternative to the Setup utility for modifying UEFI settings.

Use the ASU program online or out of band to modify UEFI settings from the command line without the need to restart the system to access the Setup utility.

You can also use the ASU program to configure the optional remote presence features or other IMM2 settings. The remote presence features provide enhanced systems-management capabilities.

In addition, the ASU program provides IMM2 LAN over USB interface configuration through the command-line interface.

Use the command-line interface to issue setup commands. You can save any of the settings as a file and run the file as a script. The ASU program supports scripting environments through a batch-processing mode.

For more information and to download the ASU program, go to https://support.lenovo.com/us/en/documents/LNVO-ASU.

## Using Lenovo XClarity Administrator

The initial setup of Lenovo XClarity Administrator includes the following:

- Preparing the network
- Installing and configuring the Lenovo XClarity Administrator virtual appliance
- Managing systems
- Setting up automatic problem notification optionally

To manage systems based on the network topology that is implemented in your environment, there are a number of different ways to connect manageable systems to the network and to set up the Lenovo XClarity Administrator. If you plan to use Lenovo XClarity Administrator to manage the server, you must check for the latest applicable Lenovo XClarity Administrator updates. For installing the Lenovo XClarity Administrator in VMware ESXi-based and Hyper-V environments and downloading Lenovo XClarity Administrator updates, go to:
https://support.lenovo.com/us/en/ documents/LNVO-XCLARIT

Lenovo XClarity Administrator offers a free, 90-day trial license that enables you to use all available features for a limited time. To continue using Lenovo XClarity Administrator after the 90-day trial period, you are required to purchase a full-function-enablement license for each Lenovo XClarity Administrator instance. You can purchase and download the license from:
https://support.lenovo.com/us/en/documents/lnvo-lxcaupd

## Updating Systems Director

Use this information to update the Systems Director.

If you plan to use Systems Director to manage the server, you must check for the latest applicable Systems Director updates and interim fixes.

**Note:** Changes are made periodically to the Lenovo website. The actual procedure might vary slightly from what is described in this document.

### Installing a newer version

To locate and install a newer version of Lenovo Systems Director, complete the following steps:

Step 1. Check for the latest version of Lenovo Systems Director:
   a. Go to http://www.ibm.com/systems/software/director/resources.html.
   b. If a newer version of Systems Director than what comes with the server is shown in the drop-down list, follow the instructions on the web page to download the latest version.

Step 2. Install the Systems Director program.

### Installing updates with your management server is connected to the Internet

If your management server is connected to the Internet, to locate and install updates and interim fixes, complete the following steps:

Step 1. Make sure that you have run the Discovery and Inventory collection tasks.

Step 2. On the Welcome page of the Systems Director web interface, click **View updates**.

Step 3. Click **Check for updates**. The available updates are displayed in a table.

Step 4. Select the updates that you want to install, and click Install to start the installation wizard.

### Installing updates with your management server is not connected to the Internet

If your management server is not connected to the Internet, to locate and install updates and interim fixes, complete the following steps:

Step 1. Make sure that you have run the Discovery and Inventory collection tasks.

Step 2. On a system that is connected to the Internet, go to http://www.ibm.com/support/ fixcentral.

Step 3. From the **Product family** list, select **IBM Systems Director**.

Step 4. From the **Product** list, select **IBM Systems Director**.

Step 5. From the **Installed version** list, select the latest version, and click**Continue**.

Step 6. Download the available updates.

Step 7. Copy the downloaded files to the management server.

Step 8. On the management server, on the Welcome page of the Systems Director web interface, click the **Manage** tab, and click **Update Manager**.

Step 9. Click **Import updates** and specify the location of the downloaded files that you copied to the management server.

Step 10. Return to the Welcome page of the Web interface, and click **View updates**.

Step 11. Select the updates that you want to install, and click **Install** to start the installation wizard.

## Updating the Universal Unique Identifier (UUID)

The Universal Unique Identifier (UUID) must be updated when the system board is replaced. Use the Advanced Settings Utility to update the UUID in the UEFI-based server.

The ASU is an online tool that supports several operating systems. Make sure that you download the version for your operating system. You can download the ASU from the Lenovo Web site. To download the ASU and update the UUID, complete the following steps.

**Note:** Changes are made periodically to the Lenovo website. The actual procedure might vary slightly from what is described in this document.

Step 1. Download the Advanced Settings Utility (ASU):

a. Go to http://www.lenovo.com/support.

b. Click on the **Downloads** tab at the top of the panel.

c. Under **ToolsCenter**, select **View ToolsCenter downloads**.

d. Select **Advanced Settings Utility (ASU)**.

e. Scroll down and click on the link and download the ASU version for your operating system.

Step 2. ASU sets the UUID in the Integrated Management Module II (IMM2). Select one of the following methods to access the Integrated Management Module II (IMM2) to set the UUID:

- Online from the target system (LAN or keyboard console style (KCS) access)
- Remote access to the target system (LAN based)
- Bootable media containing ASU (LAN or KCS, depending upon the bootable media)

Step 3. Copy and unpack the ASU package, which also includes other required files, to the server. Make sure that you unpack the ASU and the required files to the same directory. In addition to the application executable (asu or asu64), the following files are required:

- For Windows based operating systems:
  - *ibm_rndis_server_os.inf*
  - *device.cat*
- For Linux based operating systems:
  - *cdc_interface.sh*

Step 4. After you install ASU, use the following command syntax to set the UUID:

```
asu set SYSTEM_PROD_DATA.SysInfoUUID <uuid_value> [access_method]
```

Where:

*<uuid_value>*
Up to 16-byte hexadecimal value assigned by you.

*[access_method]*
The access method that you selected to use from the following methods:

- Online authenticated LAN access, type the command:

  ```
  [host <imm_internal_ip>] [user <imm_user_id>][password <imm_password>]
  ```

  Where:

  *imm_internal_ip*
  The IMM2 internal LAN/USB IP address. The default value is 169.254.95.118.

  *imm_user_id*
  The IMM2 `account` (1 of 12 accounts). The default value is USERID.

  *imm_password*
  The IMM2 account password (1 of 12 accounts). The default value is PASSW0RD (with a zero 0 not an O).

**Note:** If you do not specify any of these parameters, ASU will use the default values. When the default values are used and ASU is unable to access the IMM2 using the online authenticated LAN access method, ASU will automatically use the unauthenticated KCS access method.

The following commands are examples of using the userid and password default values and not using the default values:

Example that does not use the userid and password default values:
```
asu set SYSTEM_PROD_DATA.SYsInfoUUID <uuid_value> -user <user_id>
-password <password>
```

Example that does use the userid and password default values:
```
asu set SYSTEM_PROD_DATA.SysInfoUUID <uuid_value>
```

- Online KCS access (unauthenticated and user restricted):

  You do not need to specify a value for *access_method* when you use this access method.

  Example:
  ```
  asu set SYSTEM_PROD_DATA.SysInfoUUID <uuid_value>
  ```

  The KCS access method uses the IPMI/KCS interface. This method requires that the IPMI driver be installed. Some operating systems have the IPMI driver installed by default. ASU provides the corresponding mapping layer. See the *Advanced Settings Utility Users Guide* for more details. You can access the ASU Users Guide from the Lenovo website.

  **Note:** Changes are made periodically to the Lenovo website. The actual procedure might vary slightly from what is described in this document.

  1. Go to http://www.lenovo.com/support.
  2. Click on the **Downloads** tab at the top of the panel.
  3. Under **ToolsCenter**, select **View ToolsCenter downloads**.
  4. Select **Advanced Settings Utility (ASU)**.
  5. Scroll down and click on the link and download the ASU version for your operating system. Scroll down and look under **Online Help** to download the *Advanced Settings Utility Users Guide*.

- Remote LAN access, type the command:

  **Note:** When using the remote LAN access method to access IMM2 using the LAN from a client, the *host* and the *imm_external_ip* address are required parameters.

  ```
  host <imm_external_ip> [user <imm_user_id>][password <imm_password>]
  ```

  Where:

  *imm_external_ip*
  The external IMM2 LAN IP address. There is no default value. This parameter is required.

  *imm_user_id*
  The IMM2 `account` (1 of 12 accounts). The default value is USERID.

  *imm_password*
  The IMM2 account password (1 of 12 accounts). The default value is PASSW0RD (with a zero 0 not an O).

  The following commands are examples of using the userid and password default values and not using the default values:

  Example that does not use the userid and password default values:
  ```
  asu set SYSTEM_PROD_DATA.SYsInfoUUID <uuid_value> -host <imm_ip>
  -user <user_id> -password <password>
  ```

  Example that does use the userid and password default values:
  ```
  asu set SYSTEM_PROD_DATA.SysInfoUUID <uuid_value> -host <imm_ip>
  ```

- Bootable media:

  You can also build a bootable media using the applications available through the ToolsCenter website at https://support.lenovo.com/us/en/ documents/LNVO-CENTER. From the **ToolsCenter** page, scroll down for the available tools.

Step 5. Restart the server.

## Updating the DMI/SMBIOS data

Use this information to update the DMI/SMBIOS data.

The Desktop Management Interface (DMI) must be updated when the system board is replaced. Use the Advanced Settings Utility to update the DMI in the UEFI-based server. The ASU is an online tool that supports several operating systems. Make sure that you download the version for your operating system. You can download the ASU from the Lenovo website. To download the ASU and update the DMI, complete the following steps.

**Note:** Changes are made periodically to the Lenovo website. The actual procedure might vary slightly from what is described in this document.

Step 1. Download the Advanced Settings Utility (ASU):

a. Go to http://www.lenovo.com/support.
b. Click the **Downloads** tab at the top of the panel.
c. Under **ToolsCenter**, select **View ToolsCenter downloads**.
d. Select **Advanced Settings Utility (ASU)**.
e. Scroll down and click on the link and download the ASU version for your operating system.

Step 2. ASU sets the DMI in the Integrated Management Module II (IMM2). Select one of the following methods to access the Integrated Management Module II (IMM2) to set the DMI:

- Online from the target system (LAN or keyboard console style (KCS) access)
- Remote access to the target system (LAN based)
- Bootable media containing ASU (LAN or KCS, depending upon the bootable media)

Step 3. Copy and unpack the ASU package, which also includes other required files, to the server. Make sure that you unpack the ASU and the required files to the same directory. In addition to the application executable (asu or asu64), the following files are required:

- For Windows based operating systems:
  - *ibm_rndis_server_os.inf*
  - *device.cat*
- For Linux based operating systems:
  - *cdc_interface.sh*

Step 4. After you install ASU, Type the following commands to set the DMI:

```
asu set SYSTEM_PROD_DATA.SysInfoProdName <m/t_model> [access_method]
asu set SYSTEM_PROD_DATA.SysInfoSerialNum <s/n> [access_method]
asu set SYSTEM_PROD_DATA.SysEncloseAssetTag <asset_tag> [access_method]
```

Where:

*<m/t_model>*

The server machine type and model number. Type `mtm xxxxyyy`, where *xxxx* is the machine type and *yyy* is the server model number.

*<s/n>*
The serial number on the server. Type `sn zzzzzzz`, where *zzzzzzz* is the serial number.

*<asset_method>*
The server asset tag number. Type `asset aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa`, where *aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa* is the asset tag number.

*[access_method]*
The access method that you select to use from the following methods:

- Online authenticated LAN access, type the command:

  `[host <imm_internal_ip>] [user <imm_user_id>][password <imm_password>]`

  Where:

  *imm_internal_ip*
  The IMM2 internal LAN/USB IP address. The default value is 169.254.95.118.

  *imm_user_id*
  The IMM2 `account` (1 of 12 accounts). The default value is USERID.

  *imm_password*
  The IMM2 account password (1 of 12 accounts). The default value is PASSW0RD (with a zero 0 not an O).

  **Note:** If you do not specify any of these parameters, ASU will use the default values. When the default values are used and ASU is unable to access the IMM2 using the online authenticated LAN access method, ASU will automatically use the unauthenticated KCS access method.

  The following commands are examples of using the userid and password default values and not using the default values:

  Examples that do not use the userid and password default values:
  ```
  asu set SYSTEM_PROD_DATA.SysInfoProdName <m/t_model>
  -user <imm_user_id> -password <imm_password>
  asu set SYSTEM_PROD_DATA.SysInfoSerialNum <s/n> -user <imm_user_id>
  -password <imm_password>asu set SYSTEM_PROD_DATA.SysEncloseAssetTag <asset_tag>
  -user <imm_user_id> -password <imm_password>
  ```

  Examples that do use the userid and password default values:
  ```
  asu set SYSTEM_PROD_DATA.SysInfoProdName <m/t_model>
  asu set SYSTEM_PROD_DATA.SysInfoSerialNum <s/n>
  asu set SYSTEM_PROD_DATA.SysEncloseAssetTag <asset_tag>
  ```

- Online KCS access (unauthenticated and user restricted):

  You do not need to specify a value for *access_method* when you use this access method.

  The KCS access method uses the IPMI/KCS interface. This method requires that the IPMI driver be installed. Some operating systems have the IPMI driver installed by default. ASU provides the corresponding mapping layer. To download the *Advanced Settings Utility Users Guide*, complete the following steps:

  **Note:** Changes are made periodically to the Lenovo website. The actual procedure might vary slightly from what is described in this document.

  1. Go to http://www.lenovo.com/support.
  2. Click **Downloads** tab at the top of the panel.
  3. Under **ToolsCenter**, select **View ToolsCenter downloads**.

4. Select **Advanced Settings Utility (ASU)**.
5. Scroll down and click on the link and download the ASU version for your operating system. Scroll down and look under **Online Help** to download the *Advanced Settings Utility Users Guide*.

- The following commands are examples of using the userid and password default values and not using the default values:

  Examples that do not use the userid and password default values:
  ```
  asu set SYSTEM_PROD_DATA.SysInfoProdName <m/t_model>
  asu set SYSTEM_PROD_DATA.SysInfoSerialNum <s/n>
  asu set SYSTEM_PROD_DATA.SysEncloseAssetTag <asset_tag>
  ```

- Remote LAN access, type the command:

  **Note:** When using the remote LAN access method to access IMM2 using the LAN from a client, the *host* and the *imm_external_ip* address are required parameters.

  ```
  host <imm_external_ip> [user <imm_user_id>][password <imm_password>]
  ```

  Where:

  *imm_external_ip*
  The external IMM2 LAN IP address. There is no default value. This parameter is required.

  *imm_user_id*
  The IMM2 `account` (1 of 12 accounts). The default value is USERID.

  *imm_password*
  The IMM2 account password (1 of 12 accounts). The default value is PASSW0RD (with a zero 0 not an O).

  The following commands are examples of using the userid and password default values and not using the default values:

  Examples that do not use the userid and password default values:
  ```
  asu set SYSTEM_PROD_DATA.SysInfoProdName <m/t_model> -host <imm_ip>
  -user <imm_user_id> -password <imm_password>
  asu set SYSTEM_PROD_DATA.SysInfoSerialNum <s/n> -host <imm_ip>
  -user <imm_user_id> -password <imm_password>
  asu set SYSTEM_PROD_DATA.SysEncloseAssetTag <asset_tag> -host <imm_ip>
  -user <imm_user_id> -password <imm_password>
  ```

  Examples that do use the userid and password default values:
  ```
  asu set SYSTEM_PROD_DATA.SysInfoProdName <m/t_model> -host <imm_ip>
  asu set SYSTEM_PROD_DATA.SysInfoSerialNum <s/n> -host <imm_ip>
  asu set SYSTEM_PROD_DATA.SysEncloseAssetTag <asset_tag> -host <imm_ip>
  ```

- Bootable media:

  You can also build a bootable media using the applications available through the ToolsCenter website at https://support.lenovo.com/us/en/ documents/LNVO-CENTER. From the **Lenovo ToolsCenter** page, scroll down for the available tools.

Step 5. Restart the server.

# Chapter 4. Troubleshooting

This chapter describes the diagnostic tools and troubleshooting information that are available to help you solve problems that might occur in the server.

If you cannot diagnose and correct a problem by using the information in this chapter, see Appendix D "Getting help and technical assistance" on page 1147 for more information.

## Start here

You can solve many problems without outside assistance by following the troubleshooting procedures in this documentation and on the World Wide Web.

This document describes the diagnostic tests that you can perform, troubleshooting procedures, and explanations of error messages and error codes. The documentation that comes with your operating system and software also contains troubleshooting information.

## Diagnosing a problem

Before you contact IBM or an approved warranty service provider, follow these procedures in the order in which they are presented to diagnose a problem with your server.

Step 1. **Return the server to the condition it was in before the problem occurred.**

If any hardware, software, or firmware was changed before the problem occurred, if possible, reverse those changes. This might include any of the following items:

- Hardware components
- Device drivers and firmware
- System software
- UEFI firmware
- System input power or network connections

Step 2. **View the light path diagnostics LEDs and event logs.**

The server is designed for ease of diagnosis of hardware and software problems.

- **Light path diagnostics LEDs:** See "Light path diagnostics" on page 133 for information about using light path diagnostics LEDs.
- **Event logs:** See "Event logs" on page 141 for information about notification events and diagnosis.
- **Software or operating-system error codes:** See the documentation for the software or operating system for information about a specific error code. See the manufacturer's website for documentation.

Step 3. **Run IBM Dynamic System Analysis (DSA) and collect system data.**

Run Dynamic System Analysis (DSA) to collect information about the hardware, firmware, software, and operating system. Have this information available when you contact IBM or an approved warranty service provider. For instructions for running DSA, see the *Dynamic System Analysis Installation and User's Guide*.

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To download the latest version of DSA code and the *Dynamic System Analysis Installation and User's Guide*, go to https://support.lenovo.com/us/ en/documents/LNVO-DSA.

Step 4. **Check for and apply code updates.**

Fixes or workarounds for many problems might be available in updated UEFI firmware, device firmware, or device drivers. To display a list of available updates for the server, go to http://www.ibm.com/support/ fixcentral.

**Attention:** Installing the wrong firmware or device-driver update might cause the server to malfunction. Before you install a firmware or device-driver update, read any readme and change history files that are provided with the downloaded update. These files contain important information about the update and the procedure for installing the update, including any special procedure for updating from an early firmware or device-driver version to the latest version.

**Important:** Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.

a. **Install UpdateXpress system updates.**

You can install code updates that are packaged as an UpdateXpress System Pack or UpdateXpress CD image. An UpdateXpress System Pack contains an integration-tested bundle of online firmware and device-driver updates for your server. In addition, you can use IBM ToolsCenter Bootable Media Creator to create bootable media that is suitable for applying firmware updates and running preboot diagnostics. For more information about UpdateXpress System Packs, see http://www.ibm.com/support/entry/portal/docdisplay?lndocid=SERV-XPRESS and “Updating the firmware” on page 103. For more information about the Bootable Media Creator, see https://support.lenovo.com/us/en/documents/LNVO-BOMC.

Be sure to separately install any listed critical updates that have release dates that are later than the release date of the UpdateXpress System Pack or UpdateXpress image (see step b).

b. **Install manual system updates.**

1. **Determine the existing code levels.**

   In DSA, click **Firmware/VPD** to view system firmware levels, or click **Software** to view operating-system levels.

2. **Download and install updates of code that is not at the latest level.**

   To display a list of available updates for the server, go to http://www.ibm.com/support/fixcentral.

   When you click an update, an information page is displayed, including a list of the problems that the update fixes. Review this list for your specific problem; however, even if your problem is not listed, installing the update might solve the problem.

Step 5. **Check for and correct an incorrect configuration.**

If the server is incorrectly configured, a system function can fail to work when you enable it; if you make an incorrect change to the server configuration, a system function that has been enabled can stop working.

a. **Make sure that all installed hardware and software are supported.**

See http://www.lenovo.com/ serverproven/ to verify that the server supports the installed operating system, optional devices, and software levels. If any hardware or software component is not supported, uninstall it to determine whether it is causing the problem.

You must remove nonsupported hardware before you contact IBM or an approved warranty service provider for support.

b. **Make sure that the server, operating system, and software are installed and configured correctly.**

   Many configuration problems are caused by loose power or signal cables or incorrectly seated adapters. You might be able to solve the problem by turning off the server, reconnecting cables, reseating adapters, and turning the server back on. For information about performing the checkout procedure, see “About the checkout procedure” on page 130. For information about configuring the server, see Chapter 3 “Configuration information and instructions” on page 103.

Step 6. **See controller and management software documentation.**

If the problem is associated with a specific function (for example, if a RAID hard disk drive is marked offline in the RAID array), see the documentation for the associated controller and management or controlling software to verify that the controller is correctly configured.

Problem determination information is available for many devices such as RAID and network adapters.

For problems with operating systems or IBM software or devices, go to http://www.lenovo.com/support.

Step 7. **Check for troubleshooting procedures and RETAIN tips.**

Troubleshooting procedures and RETAIN tips document known problems and suggested solutions. To search for troubleshooting procedures and RETAIN tips, go to http://www.lenovo.com/support.

Step 8. **Use the troubleshooting tables.**

See “Troubleshooting by symptom” on page 147 to find a solution to a problem that has identifiable symptoms.

A single problem might cause multiple symptoms. Follow the troubleshooting procedure for the most obvious symptom. If that procedure does not diagnose the problem, use the procedure for another symptom, if possible.

If the problem remains, contact IBM or an approved warranty service provider for assistance with additional problem determination and possible hardware replacement. To open an online service request, go to http://www.ibm.com/support/ entry/portal/Open_service_request. Be prepared to provide information about any error codes and collected data.

## Undocumented problems

If you have completed the diagnostic procedure and the problem remains, the problem might not have been previously identified by IBM. After you have verified that all code is at the latest level, all hardware and software configurations are valid, and no light path diagnostics LEDs or log entries indicate a hardware component failure, contact IBM or an approved warranty service provider for assistance.

To open an online service request, go to http://www.ibm.com/support/ entry/portal/Open_service_request. Be prepared to provide information about any error codes and collected data and the problem determination procedures that you have used.

## Service bulletins

Lenovo continually updates the support website with the latest tips and techniques that you can use to solve problem that you might have with the Lenovo System x3500 M4 server.

To find service bulletins that are available for the Lenovo System x3500 M4 server, go to http://www.lenovo.com/support and search for `7383`, and `retain`.

## Checkout procedure

The checkout procedure is the sequence of tasks that you should follow to diagnose a problem in the server.

## About the checkout procedure

Before you perform the checkout procedure for diagnosing hardware problems, review the following information.

- Read the safety information that begins in “Safety” on page v.
- Lenovo Dynamic System Analysis (DSA) provides the primary methods of testing the major components of the server, such as the system board, Ethernet controller, keyboard, mouse (pointing device), serial ports, and hard disk drives. You can also use them to test some external devices. If you are not sure whether a problem is caused by the hardware or by the software, you can use the diagnostic programs to confirm that the hardware is working correctly.
- When you run DSA, a single problem might cause more than one error message. When this happens, correct the cause of the first error message. The other error messages usually will not occur the next time you run DSA.

  **Important:** If multiple error codes or or light path diagnostics LEDs indicate a microprocessor error, the error might be in the microprocessor or in the microprocessor socket. See “Microprocessor problems” on page 152 for information about diagnosing microprocessor problems.
- Before you run DSA, you must determine whether the failing server is part of a shared hard disk drive cluster (two or more servers sharing external storage devices). If it is part of a cluster, you can run all diagnostic programs except the ones that test the storage unit (that is, a hard disk drive in the storage unit) or the storage adapter that is attached to the storage unit. The failing server might be part of a cluster if any of the following conditions is true:
  - You have identified the failing server as part of a cluster (two or more servers sharing external storage devices).
  - One or more external storage units are attached to the failing server and at least one of the attached storage units is also attached to another server or unidentifiable device.
  - One or more servers are located near the failing server.

  **Important:** If the server is part of a shared hard disk drive cluster, run one test at a time. Do not run any suite of tests, such as “quick” or “normal” tests, because this might enable the hard disk drive diagnostic tests.
- If the server is halted and a POST error code is displayed, see Appendix B “UEFI (POST) error codes” on page 965. If the server is halted and no error message is displayed, see “Troubleshooting by symptom” on page 147 and “Solving undetermined problems” on page 161.
- For information about power-supply problems, see “Solving power problems” on page 160, “Power problems” on page 155, and “Power-supply LEDs” on page 139.
- For intermittent problems, check the event log; see “Event logs” on page 141 and Appendix C “DSA diagnostic test results” on page 989.

## Performing the checkout procedure

Use this information to perform the checkout procedure.

To perform the checkout procedure, complete the following steps:

Step 1. Is the server part of a cluster?

- **No:** Go to Step 2.
- **Yes:** Shut down all failing servers that are related to the cluster. Go to Step 2.

Step 2. Complete the following steps:

a. Check the power supply LEDs (see “Power-supply LEDs” on page 139).
b. Turn off the server and all external devices.
c. Check all internal and external devices for compatibility at http://www.lenovo.com/serverproven/.
d. Check all cables and power cords.
e. Set all display controls to the middle positions.
f. Turn on all external devices.
g. Turn on the server. If the server does not start, see “Troubleshooting by symptom” on page 147.
h. Check the system-error LED on the operator information panel. If it is lit, check the light path diagnostic LEDs (see “Light path diagnostics” on page 133).
i. Check for the following results:
   - Successful completion of POST (see “POST” on page 143 for more information)
   - Successful completion of startup, which is indicated by a readable display of the operating-system desktop.

Step 3. Is there a readable image on the monitor screen?

- **No:** Find the failure symptom in “Troubleshooting by symptom” on page 147; if necessary, see “Solving undetermined problems” on page 161.
- **Yes:** Run DSA (see “Running DSA Preboot diagnostic programs” on page 145).
  - If DSA reports an error, follow the instructions in Appendix C “DSA diagnostic test results” on page 989.
  - If DSA does not report an error but you still suspect a problem, see “Solving undetermined problems” on page 161.

# Diagnostic tools

The following tools are available to help you diagnose and solve hardware-related problems.

- **Light path diagnostics**

  Use light path diagnostics to diagnose system errors quickly. See “Light path diagnostics” on page 133 for more information.

- **Event logs**

  The event logs list the error codes and messages that are generated when an error is detected for the subsystems IMM2, POST, DSA, and the server baseboard management controller. See “Event logs” on page 141 for more information.

- **Integrated Management Module II (IMM2)**

  The Integrated Management Module II (IMM2) combines service processor functions, video controller, and remote presence and blue-screen capture features in a single chip. The IMM2 provides advanced service-processor control, monitoring, and alerting function. If an environmental condition exceeds a threshold or if a system component fails, the IMM2 lights LEDs to help you diagnose the problem, records the error in the IMM2 event log, and alerts you to the problem. Optionally, the IMM2 also provides a virtual presence capability for remote server management capabilities. The IMM2 provides remote server management through the following industry-standard interfaces:

  – Intelligent Platform Management Protocol (IPMI) version 2.0

  – Simple Network Management Protocol (SNMP) version 3

  – Common Information Model (CIM)

  – Web browser

  For more information about the Integrated Management Module II (IMM2), see “Using the Integrated Management Module II (IMM2)” on page 114, Appendix A “Integrated Management Module II (IMM2) error messages” on page 331, and the *Integrated Management Module II User's Guide* at http://www.ibm.com/support/entry/portal/docdisplay?lndocid=migr-5086346.

- **Lenovo Dynamic System Analysis**

  Two editions of Lenovo Dynamic System Analysis (DSA) are available for diagnosing problems, DSA Portable and DSA Preboot:

  – DSA Portable

    DSA Portable collects and analyzes system information to aid in diagnosing server problems. DSA Portable runs on the server operating system and collects the following information about the server:

    – Drive health information

    – Event logs for ServeRAID controllers and service processors

    – IMM2 configuration information

    – IMM2 environmental information

    – Installed hardware, including PCI and USB information

    – Installed applications and hot fixes

    – Kernel modules

    – Light path diagnostics status

    – Microprocessor, input/out hub, and UEFI error logs

    – Network interfaces and settings

    – Option card driver and firmware information

    – RAID controller configuration

    – Service processor (Integrated Management Module II (IMM2)) status and configuration

    – System configuration

    – Vital product data, firmware, and UEFI configuration

    DSA Portable creates a DSA log, which is a chronologically ordered merge of the system-event log (as the IPMI event log), the Integrated Management Module II (IMM2) event log (as the ASM event log), and the operating-system event logs. You can send the DSA log as a file to Lenovo Support (when requested by Lenovo Support) or view the information as a text file or HTML file.

    **Note:** Use the latest available version of DSA to make sure you are using the most recent configuration data. For documentation and download information for DSA, see http://shop.lenovo.com/us/en/systems/solutions/.

For additional information, see “Lenovo Dynamic System Analysis” on page 144 and Appendix C “DSA diagnostic test results” on page 989.

– DSA Preboot

  DSA Preboot diagnostic program is stored in the integrated USB memory on the server. DSA Preboot collects and analyzes system information to aid in diagnosing server problems, as well as offering a rich set of diagnostic tests of the major components of the server. DSA Preboot collects the following information about the server:

  – Drive health information
  – Event logs for ServeRAID controllers and service processors
  – IMM2 configuration information
  – IMM2 environmental information
  – Installed hardware, including PCI and USB information
  – Light path diagnostics status
  – Microprocessor, input/output hub, and UEFI error logs
  – Network interfaces and settings
  – Option card driver and firmware information
  – RAID controller configuration
  – Service processor (Integrated Management Module II (IMM2)) status and configuration
  – System configuration
  – Vital product data, firmware, and UEFI configuration

  DSA Preboot also provides diagnostics for the following system components (when they are installed):

  1. Emulex network adapter
  2. IMM2 I2C bus
  3. Light path diagnostics panel
  4. Memory modules
  5. Microprocessors
  6. Optical devices (CD or DVD)
  7. SAS or SATA drives
  8. LSI controller
  9. Broadcom network adapter
  10. FusionIO storage
  11. Intel GPU
  12. Nvidia GPU

  See “Running DSA Preboot diagnostic programs” on page 145 for more information on running the DSA Preboot program on the server.

- **Troubleshooting by symptom**

  These tables list problem symptoms and actions to correct the problems. See “Troubleshooting by symptom” on page 147 for more information.

## Light path diagnostics

Light path diagnostics is a system of LEDs on various external and internal components of the server that leads you to the failed component. When an error occurs, LEDs are lit along the path of the front panel, the

light path diagnostics panel, then on the failed component. By viewing the LEDs in a particular order, you can often identify the source of the error.

When LEDs are lit to indicate an error, they remain lit when the server is turned off, provided that the server is still connected to power and the power supply is operating correctly.

Before you work inside the server to view light path diagnostics LEDs, read the safety information “Safety” on page v and “Handling static-sensitive devices” on page 37.

If an error occurs, view the light path diagnostics LEDs in the following order:

1. Look at the operator information panel on the front of the server.
   - If the check log LED is lit, it indicates that an error or multiple errors have occurred. The sources of the errors cannot be isolated or concluded by observing the light path diagnostics LEDs directly. A further investigation into IMM2 system-event log or system-error log might be required.
   - If the system-error LED is lit, it indicates that an error has occurred; go to step 2.

   The following illustration shows the operator information panel.

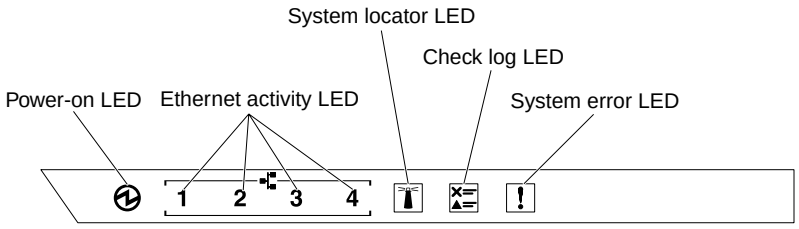



*Figure 89. Operator information panel*

The following table describes the LEDs on the operator information panel and suggested actions to correct the detected problems.

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the IBM support website at http://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information.

*Table 10. The suggested actions to correct the detected problem for each LED light*

| LED | Description | Action |
|---|---|---|
| System locator (blue) | Use this LED to visually located the server among other servers. You can use IBM Systems Director or IMM2 to light this LED remotely. | |
| Check log (yellow) | An error has occurred and cannot be isolated without performing certain procedures. | a. Check the IMM2 system event log and the system-error log for information about the error.<br>b. Save the log if necessary and clear the log afterwards. |
| System-error (yellow) | An error has occurred. | a. Check the light path diagnostics LEDs and follow the instructions. |

*Table 10. The suggested actions to correct the detected problem for each LED light (continued)*

| LED | Description | Action |
|---|---|---|
| | | b. Check the IMM2 system event log and the system-error log for information about the error.<br>c. Save the log if necessary and clear the log afterwards. |

2. Look at the light path diagnostics panel on the front of the server. Lit LEDs on the light path diagnostics panel indicate the type of error that has occurred. The light path diagnostics panel LEDs are visible through the bezel. See “Light path diagnostics LEDs” on page 135. Look at the system service label on the top of the server, which gives an overview of internal components that correspond to the LEDs on the light path diagnostics panel. This information can often provide enough information to diagnose the error.

## Light path diagnostics LEDs

The following table describes the LEDs on the light path diagnostics panel and suggested actions to correct the detected problems.

Look at the light path diagnostics panel on the front of the server. Lit LEDs on the light path diagnostics panel indicate the type of error that has occurred. The light path diagnostics panel LEDs are visible through the bezel.

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the IBM support website at http://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information.

*Table 11. Light path diagnostics panel LEDs*

| LED | Description | Action |
|---|---|---|
| Hard disk drive/ RAID | A hard disk drive has failed or is missing. A SAS controller or a ServeRAID controller error has occurred. | 1. Check the LEDs on the hard disk drives for the drive with a lit status LED and reseat the hard disk drive.<br>2. Reseat the hard disk drive backplane.<br>3. Check the LEDs near SAS controllers or ServeRAID controllers and reseat the corresponding controllers.<br>4. For more information, see the .<br>5. If the error remains, replace the following components one at a time, in the order listed, restarting the server after each:<br>a. Replace the hard disk drive.<br>b. Replace the hard disk drive backplane.<br>c. Replace the SAS controller.<br>d. Replace the ServeRAID controller.<br>6. If the problem remains, go to http://www.lenovo.com/support. |
| Fan | A fan has failed, is operating too slowly, or has been removed. | 1. Open the fan cage cover to reseat the failing fan (with lit LED). |

*Table 11. Light path diagnostics panel LEDs (continued)*

| LED | Description | Action |
|---|---|---|
| | The TEMP LED might also be lit. | 2. Replace the failing fan (see “Installing a simple-swap fan” on page 230). |
| Temperature | The system temperature has exceeded a threshold level. A failing fan can cause the Temperature LED to be lit. | 1. Make sure that the heat sink is seated correctly.<br>2. Determine whether a fan has failed. If it has failed, replace the failing fan.<br>3. Make sure that the room temperature is not too high. See “Server features and specifications” on page 5 for the server temperature information.<br>4. Make sure that the air vents are not blocked.<br>5. Make sure that the fan on the adapter and the network adapter is seated correctly. If it has failed, replace the failing component.<br>6. If the failure remains, go to http://www.lenovo.com/support. |
| Microprocessor | When only the Microprocessor LED is lit, a microprocessor has failed. | If the Configuration LED is not lit, a microprocessor failure occurs, complete the following steps:<br>1. (Trained technician only) Make sure that the failing microprocessor and its heat sink, which are indicated by a lit LED on the system board, are installed correctly. See “Installing a microprocessor and heat sink” on page 288 for information about installation and requirements.<br>2. (Trained technician only) Replace the failing microprocessor (see “Installing a microprocessor and heat sink” on page 288).<br>3. If the failure remains, go to http://www.lenovo.com/support. |
| | Microprocessor + Configuration<br><br>When both the Microprocessor and Configuration LEDs are lit, the microprocessor configuration is invalid. | If the Configuration LED and the Microprocessor LED are lit, the system issues an invalid microprocessor configuration error. Complete the following steps to correct the problem:<br>1. Check the microprocessors that were just installed to make sure that they are compatible with each other (see “Installing a microprocessor and heat sink” on page 288 for additional information about microprocessor requirements) and use the Setup utility and select System Information ® System Summary ® Processor Details to verify the microprocessors information.<br>2. (Trained technician only) Replace the incompatible microprocessor.<br>3. Check the system-error logs for information about the error. Replace any component that is identified in the error log. |

*Table 11. Light path diagnostics panel LEDs (continued)*

| LED | Description | Action |
|---|---|---|
| Configuration<br> | Configuration + Microprocessor<br><br>A hardware configuration error has occurred. | If the Configuration LED and the Microprocessor LED are lit, complete the following steps to correct the problem:<br>1. Check the microprocessors that were just installed to make sure that they are compatible with each other (see “Installing a microprocessor and heat sink” on page 288 for additional information about microprocessor requirements).<br>2. (Trained technician only) Replace the incompatible microprocessor.<br>3. Check the system-event logs for information about the error (see “Event logs” on page 141). Replace any component that is identified in the error log. |
| | Configuration + Memory<br><br>A hardware configuration error has occurred. | If the Configuration LED and the Memory LED are lit, check the system-event logs for information about the error (see “Event logs” on page 141). |
| | Configuration + Power supply<br><br>A hardware configuration error has occurred. | If the Configuration LED and the Power supply LED are lit, the system issues an invalid power configuration error. Make sure that both power supplies installed in the server are of the same rating or wattage. |
| Memory<br> | When only the Memory LED is lit, a memory error has occurred. | **Note:** Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.<br>If the Configuration LED is not lit, the system might detect a memory error. Complete the following steps to correct the problem:<br>1. Reseat or swap the DIMMs with lit LEDs.<br>2. Check the system-event logs for information about the error (see “Event logs” on page 141).<br>3. Update the server firmware to the latest level (see “Updating the firmware” on page 103 for more information).<br>4. Replace the failing DIMM (see “Installing a DIMM” on page 268). |
| | Memory + Configuration<br><br>When both the Memory and Configuration LEDs are lit, the memory configuration is invalid. | If the Memory LED and the Configuration LED are lit, check the system-event logs for information about the error (see “Event logs” on page 141). |
| Power supply<br> | When only the Power supply LED is lit, a power supply has failed. | If the CONFIG LED is not lit, the system might detect a power supply error. Complete the following steps to correct the problem:<br>1. Check the power-supply with an lit yellow LED (see “Power-supply LEDs” on page 139).<br>2. Make sure that the power supplies are seated correctly and plugged in a good AC outlet.<br>3. Remove one of the power supplies to isolate the failed power supply.<br>4. Make sure that both power supplies installed in the server are of the same voltage. |

*Table 11. Light path diagnostics panel LEDs (continued)*

| LED | Description | Action |
|---|---|---|
| | | 5. Replace the failed power supply (see “Removing a hot-swap power supply” on page 254). |
| | Power supply + Configuration<br><br>When both the Power supply and Configuration LEDs are lit, the power supply configuration is invalid. | If the PS LED and the CONFIG LED are lit, the system issues an invalid power configuration error. Make sure that both power supplies installed in the server are of the same rating or wattage. |
| Over spec<br><br>OVER SPEC | The power supplies are using more power than their maximum rating. | If the Over spec LED on the light path diagnostics panel is lit, complete the following steps in order until the problem is solved:<br>1. Add a second power supply.<br>2. Replace the failed power supply.<br>3. Remove the optional devices. |
| PCI<br><br> | An error has occurred on a PCI card or a PCI bus. | 1. Check if any PCI slot error LED is lit to identify the component that caused the error.<br>2. Check the system-error log for information about the error (see “Event logs” on page 141).<br>3. If you cannot isolate the failing component by using the LEDs and the information in the system-event logs, remove one component at a time; and restart the server after each component is removed.<br>4. If the failure remains, go to http://www.lenovo.com/support. |
| NMI<br><br>NMI | A nonmaskable interrupt has occurred, or the NMI button was pressed. | 1. Check the system-event logs for information about the error (see “Event logs” on page 141).<br>2. Restart the server. |
| System board<br><br>BRD | An error has occurred on the system battery, the microprocessor 2 expansion board, the power paddle card, or the system board. | 1. Check the LEDs on the system board to identify the component that caused the error. The System board LED can be lit due to any of the following reasons:<br>• Battery (see “Removing the system battery” on page 233 and “Installing the system battery” on page 235).<br>• Microprocessor 2 expansion board (see “Removing the microprocessor 2 expansion board” on page 297 and “Installing the microprocessor 2 expansion board” on page 299).<br>• Power paddle card (see “Removing the power paddle card” on page 278 and “Installing the power paddle card” on page 280).<br>• (Trained technician only) System board (see “Removing the system board” on page 307 and “Installing the system board” on page 309).<br>2. Check the system-event logs for information about the error.<br>3. Replace the failing component:<br>• Battery<br>• Microprocessor 2 expansion board |

*Table 11. Light path diagnostics panel LEDs (continued)*

| LED | Description | Action |
|---|---|---|
| | | • Power paddle card<br>• (Trained technician only) System board |

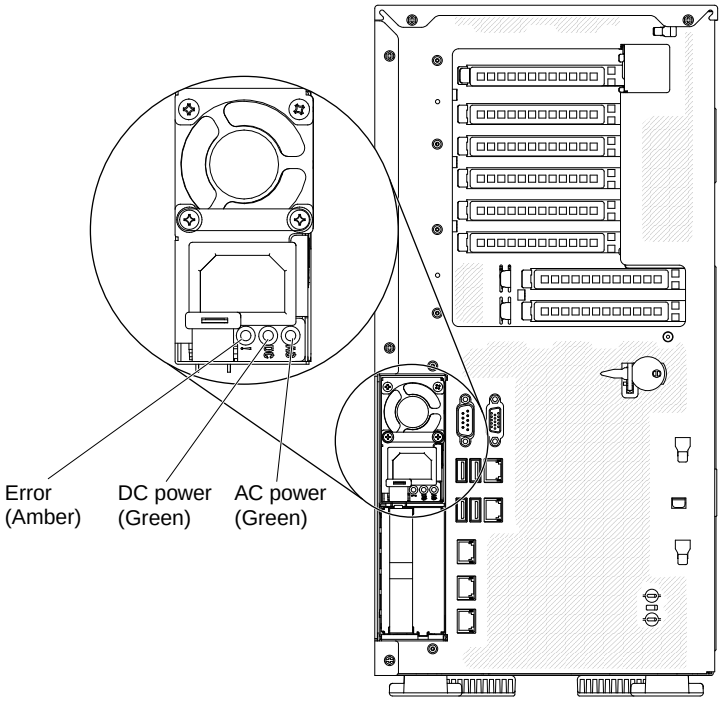
Look at the system service label on the top of the server, which gives an overview of internal components that correspond to the LEDs on the light path diagnostics panel. This information can often provide enough information to diagnose the error.

## Power-supply LEDs

This section describes the power-supply LEDs on the rear of the server and the suggested actions to correct the detected problems.

The following illustration shows the power-supply LEDs on the rear of the server.

*Figure 90. Power-supply LEDs on the rear of the server*




The following table describes the problems that are indicated by various combinations of the power-supply LEDs and the system power LED on the operator information panel and suggested actions to correct the detected problems.

*Table 12. Power-supply LEDs*

| AC Power-supply LEDs | | | Description | Action | Notes |
|---|---|---|---|---|---|
| **AC** | **DC** | **Error** | | | |
| On | On | Off | Normal operation | | |
| Off | Off | Off | No ac power to the server or a problem with the ac power source. | 1. Check the ac power to the server.<br>2. Make sure that the power cord is connected to a functioning power source.<br>3. Restart the server. If the error remains, check the power‐supply LEDs.<br>4. If the problem remains, replace the power supply. | This is a normal condition when no ac power is present. |
| Off | Off | On | Faulty power supply. | 1. Make sure that the power cord is connected to a functioning power source.<br>2. Replace the power supply. | This happens only when a second power supply is providing power to the server. |
| Off | On | Off | Faulty power supply | Replace the power supply. | |
| Off | On | On | Faulty power supply | Replace the power supply. | |
| On | Off | Off | Power supply not fully seated, faulty system board, or faulty power supply | 1. Reseat the power supply.<br>2. If the system board error LED is not lit, replace the power supply.<br>3. (Trained technician only) If the system board error LED is lit, replace the system board. | Typically indicates that a power supply is not fully seated. |
| On | Off or Flashing | On | Faulty power supply | Replace the power supply. | |
| On | On | On | Power supply is faulty but still operational | Replace the power supply. | |

## System pulse LEDs

This section describes the system pulse LEDs on the system board that monitors the system power-on and power-off and boot progress.

The following LEDs are on the system board and monitor the system power-on and power-off sequencing and boot progress (see “System-board LEDs and controls” on page 31 for the location of these LEDs).

*Table 13. System pulse LEDs*

| LED | Description | Action |
|---|---|---|
| RTMM heartbeat | Power-on and power-off sequencing. | 1. If the LED blinks at 1Hz, it is functioning properly and no action is necessary.<br>2. If the LED is not blinking, (trained technician only) replace the system board. |
| IMM2 heartbeat | IMM2 heartbeat boot process. | The following steps describe the different stages of the IMM2 heartbeat sequencing process.<br>1. When this LED is blinking fast (approximately 4Hz), this indicates, that the IMM2 code is in the loading process.<br>2. When this LED goes off momentarily, this indicates that the IMM2 code has loaded completely.<br>3. When this LED goes off momentarily and then starts blinking slowing (approximately 1Hz), this indicates that IMM2 is fully operational. You can now press the power-control button to power-on the server.<br>4. If this LED does not blink within 30 seconds of connecting a power source to the server, (trained technician only) replace the system board. |

## Event logs

Error codes and messages are displayed in POST event log, system-event log, Integrated Management Module II (IMM2) event log, and DSA event log.

- **POST event log:** This log contains the most recent error codes and messages that were generated during POST. You can view the contents of the POST event log from the Setup utility (see “Starting the Setup utility” on page 107). For more information about POST error codes, see Appendix B “UEFI (POST) error codes” on page 965.
- **System-event log:** This log contains POST and system management interrupt (SMI) events and all events that are generated by the baseboard management controller that is embedded in the Integrated Management Module II (IMM2). You can view the contents of the system-event log through the Setup utility and through the Dynamic System Analysis (DSA) program (as IPMI event log).The system-event log is limited in size. When it is full, new entries will not overwrite existing entries; therefore, you must periodically clear the system-event log through the Setup utility. When you are troubleshooting an error, you might have to save and then clear the system-event log to make the most recent events available for analysis. For more information about the system-event log, see Appendix A “Integrated Management Module II (IMM2) error messages” on page 331.

  Messages are listed on the left side of the screen, and details about the selected message are displayed on the right side of the screen. To move from one entry to the next, use the Up Arrow (- ) and Down Arrow (‾) keys.

  Some IMM2 sensors cause assertion events to be logged when their setpoints are reached. When a setpoint condition no longer exists, a corresponding deassertion event is logged. However, not all events are assertion-type events.
- **Integrated Management Module II (IMM2) event log:** This log contains a filtered subset of all IMM2, POST, and system management interrupt (SMI) events. You can view the IMM2 event log through the IMM2 web interface. For more information, see “Logging on to the web interface” on page 116. You can

also view the IMM2 event log through the Dynamic System Analysis (DSA) program (as the ASM event log). For more information about IMM2 error messages, see Appendix A “Integrated Management Module II (IMM2) error messages” on page 331.

- **DSA event log:** This log is generated by the Dynamic System Analysis (DSA) program, and it is a chronologically ordered merge of the system-event log (as the IPMI event log), the IMM2 chassis-event log (as the ASM event log), and the operating-system event logs. You can view the DSA event log through the DSA program (see “Viewing event logs without restarting the server” on page 142). For more information about DSA and DSA messages, see “Lenovo Dynamic System Analysis” on page 144 and Appendix C “DSA diagnostic test results” on page 989.

## Viewing event logs through the Setup utility

Use this information to view the event logs through the Setup utility.

To view the POST event log or system-event log, complete the following steps:

Step 1. Turn on the server.

Step 2. When the prompt **<F1> Setup** is displayed, press F1. If you have set both a power-on password and an administrator password, you must type the administrator password to view the event logs.

Step 3. Select **System Event Logs** and use one of the following procedures:

- To view the POST event log, select **POST Event Viewers**.
- To view the system-event log, select **System Event Log**.

## Viewing event logs without restarting the server

Use this information to view the event logs without restarting the server.

If the server is not hung and the IMM2 is connected to a network, methods are available for you to view one or more event logs without having to restart the server.

If you have installed Dynamic System Analysis (DSA) Portable, you can use it to view the system-event log (as the IPMI event log), or the IMM2 event log (as the ASM event log), the operating-system event logs, or the merged DSA log. You can also use DSA Preboot to view these logs, although you must restart the server to use DSA Preboot. To install DSA Portable or check for and download a later version of DSA Preboot CD image, go to https://support.lenovo.com/us/ en/documents/LNVO-DSA.

If IPMItool is installed in the server, you can use it to view the system-event log. Most recent versions of the Linux operating system come with a current version of IPMItool. For an overview of IPMI, go to http://www.ibm.com/developerworks/linux/blueprints/ and click **Using Intelligent Platform Management Interface (IPMI) on IBM Linux platforms**.

You can view the IMM2 event log through the **Event Log** link in the Integrated Management Module II (IMM2) web interface. For more information, see “Logging on to the web interface” on page 116.

The following table describes the methods that you can use to view the event logs, depending on the condition of the server. The first three conditions generally do not require that you restart the server.

*Table 14. Methods for viewing event logs*

| Condition | Action |
|---|---|
| The server is not hung and is connected to a network (using an operating system controlled network ports). | Use any of the following methods:<br>• Run DSA Portable to view the diagnostic event log (requires IPMI driver) or create an output file that you can send to Lenovo service and support (using ftp or local copy).<br>• Use IPMItool to view the system-event log (requires IPMI driver).<br>• Use the web browser interface to the IMM2 to view the system-event log locally (requires RNDIS USB LAN driver). |
| The server is not hung and is not connected to a network (using an operating system controlled network ports). | • Run DSA Portable to view the diagnostic event log (requires IPMI driver) or create an output file that you can send to Lenovo service and support (using ftp or local copy).<br>• Use IPMItool to view the system-event log (requires IPMI driver).<br>• Use the web browser interface to the IMM2 to view the system-event log locally (requires RNDIS USB LAN driver). |
| The server is not hung and the Integrated Management Module II (IMM2) is connected to a network. | In a web browser, type the IP address for the IMM2 and go to the **Event Log** page. For more information, see “Obtaining the IMM2 host name” on page 115 and “Logging on to the web interface” on page 116. |
| The server is hung, and no communication can be made with the IMM2. | • If DSA Preboot is installed, restart the server and press F2 to start DSA Preboot and view the event logs (see “Running DSA Preboot diagnostic programs” on page 145 for more information).<br>• Alternatively, you can restart the server and press F1 to start the Setup utility and view the POST event log or system-event log. For more information, see “Viewing event logs through the Setup utility” on page 142. |

### Clearing the event logs

Use this information to clear the event logs.

To clear the event logs, complete the following steps.

**Note:** The POST error log is automatically cleared each time the server is restarted.

Step 1. Turn on the server.

Step 2. When the prompt **<F1> Setup** is displayed, press F1. If you have set both a power-on password and an administrator password, you must type the administrator password to view the event logs.

Step 3. To clear the IMM2 system-event log, select **System Event Logs → Clear System Event Log**, then, press Enter twice.

## POST

When you turn on the server, it performs a series of tests to check the operation of the server components and some optional devices in the server. This series of tests is called the power-on self-test, or POST.

**Note:** This server does not use beep codes for server status.

If a power-on password is set, you must type the password and press **Enter** (when you are prompted), for POST to run.

If POST detects a problem, an error message is displayed. See Appendix B “UEFI (POST) error codes” on page 965 for more information.

If POST detects a problem, an error message is sent to the POST event log, see “Event logs” on page 141 for more information.

## Lenovo Dynamic System Analysis

Lenovo Dynamic System Analysis (DSA) collects and analyzes system information to aid in diagnosing server problems.

DSA collects the following information about the server:

- Drive health information
- Event logs for ServeRAID controllers and service processors
- Hardware inventory, including PCI and USB information
- Installed applications and hot fixes (available in DSA Portable only)
- Kernel modules (available in DSA Portable only)
- Light path diagnostics status
- Network interfaces and settings
- Performance data and details about processes that are running
- RAID controller configuration
- Service processor (Integrated Management Module II (IMM2)) status and configuration
- System configuration
- Vital product data and firmware information

For system-specific information about the action that you should take as a result of a message that DSA generates, see Appendix C “DSA diagnostic test results” on page 989.

If you cannot find a problem by using DSA, see “Solving undetermined problems” on page 161 for information about testing the server.

**Note:** DSA Preboot might appear to be unresponsive when you start the program. This is normal operation while the program loads.

Make sure that the server has the latest version of the DSA code. To obtain DSA code and the *Dynamic System Analysis Installation and User's Guide*, go to https://support.lenovo.com/us/en/documents/LNVO-DSA.

### DSA editions

Two editions of Dynamic System Analysis are available.

- **DSA Portable**

  DSA Portable Edition runs within the operating system; you do not have to restart the server to run it. It is packaged as a self-extracting file that you download from the web. When you run the file, it self-extracts to a temporary folder and performs comprehensive collection of hardware and operating-system information. After it runs, it automatically deletes the temporary files and folder and leaves the results of the data collection and diagnostics on the server.

  If you are unable to restart the server, use DSA Portable.

- **DSA Preboot**

  DSA Preboot runs outside of the operating system; you must restart the server to run it. It is provided in the flash memory on the server, or you can create a bootable media such as a CD, DVD, ISO, USB, or PXE using the Lenovo ToolsCenter Bootable Media Creator (BoMC). For more details, see the BoMC *User Guide* at https://support.lenovo.com/ us/en/documents/LNVO-BOMC. In addition to the capabilities of the other editions of DSA, DSA Preboot includes diagnostic routines that would be disruptive to run within the operating-system environment (such as resetting devices and causing loss of network connectivity). It has a graphical user interface that you can use to specify which diagnostics to run and to view the diagnostic and data collection results.

  DSA Preboot provides diagnostics for the following system components, if they are installed:

  – Emulex network adapter
  – Optical devices (CD or DVD)
  – Tape drives (SCSI, SAS, or SATA)
  – Memory
  – Microprocessor
  – Checkpoint panel
  – I2C bus
  – SAS and SATA drives

  If you are able to restart the server or if you need comprehensive diagnostics, use DSA Preboot.

For more information and to download the utilities, go to https://support.lenovo.com/us/en/documents/LNVO-DSA.

## Running DSA Preboot diagnostic programs

Use this information to run the DSA Preboot diagnostic programs.

**Note:** The DSA memory test might take up to 30 minutes to run. If the problem is not a memory problem, skip the memory test.

To run the DSA Preboot diagnostic programs, complete the following steps:

Step 1. If the server is running, turn off the server and all attached devices.

Step 2. Turn on all attached devices; then, turn on the server.

Step 3. When the prompt **<F2> Diagnostics** is displayed, press F2.

**Note:** The DSA Preboot diagnostic program might appear to be unresponsive for an unusual length of time when you start the program. This is normal operation while the program loads. The loading process may take up to 10 minutes.

Step 4. Optionally, select **Quit to DSA** to exit from the stand-alone memory diagnostic program.

**Note:** After you exit from the stand-alone memory diagnostic environment, you must restart the server to access the stand-alone memory diagnostic environment again.

Step 5. Type **gui** to display the graphical user interface, or type **cmd** to display the DSA interactive menu.

Step 6. Follow the instructions on the screen to select the diagnostic test to run.

If the diagnostic programs do not detect any hardware errors but the problem remains during normal server operation, a software error might be the cause. If you suspect a software problem, see the information that comes with your software.

A single problem might cause more than one error message. When this happens, correct the cause of the first error message. The other error messages usually will not occur the next time you run the diagnostic programs.

If the server stops during testing and you cannot continue, restart the server and try running the DSA Preboot diagnostic programs again. If the problem remains, replace the component that was being tested when the server stopped.

### Diagnostic text messages

Diagnostic text messages are displayed while the tests are running.

A diagnostic text message contains one of the following results:

**Passed:** The test was completed without any errors.

**Failed:** The test detected an error.

**Aborted:** The test could not proceed because of the server configuration

Additional information concerning test failures is available in the extended diagnostic results for each test.

### Viewing the test log results and transferring the DSA collection

Use this information to view the test log results and transferring the DSA collection.

To view the test log for the results when the tests are completed, click the **Success** link in the Status column, if you are running the DSA graphical user interface, or type `:x` to exit the Execute Tests menu, if you are running the DSA interactive menu, or select **Diagnostic Event Log** in the graphical user interface. To transfer DSA Preboot collections to an external USB device, type the `copy` command in the DSA interactive menu.

- If you are running the DSA graphical user interface (GUI), click the **Success** link in the Status column.
- If you are running the DSA interactive menu (CLI), type `:x` to exit the Execute Tests menu; then, select **completed tests** to view the results.

You can also send the DSA error log to Lenovo support to aid in diagnosing the server problems.

## Automated service request (call home)

Lenovo provides tools that can automatically collect and send data or call Lenovo Support when an error is detected.

These tools can help Lenovo Support speed up the process of diagnosing problems. The following sections provide information about the call home tools.

## Lenovo Electronic Service Agent

Lenovo Electronic Service Agent monitors, tracks, and captures system hardware errors and hardware and software inventory information, and reports serviceable problems directly to Lenovo Support.

You can also choose to collect data manually. It uses minimal system resources, and can be downloaded from the Lenovo website. For more information and to download Lenovo Electronic Service Agent, go to http://www.ibm.com/support/esa/.

## Error messages

This section provides the list of error codes and messages for UEFI/POST, IMM2, and DSA that are generated when a problem is detected.

See Appendix B “UEFI (POST) error codes” on page 965, Appendix A “Integrated Management Module II (IMM2) error messages” on page 331, and Appendix C “DSA diagnostic test results” on page 989 for more information.

## Troubleshooting by symptom

Use the troubleshooting tables to find solutions to problems that have identifiable symptoms.

If you cannot find a solution to the problem in these tables, see Appendix C “DSA diagnostic test results” on page 989 for information about testing the server and “Running DSA Preboot diagnostic programs” on page 145 for additional information about running DSA Preboot program. For additional information to help you solve problems, see “Start here” on page 127.

If you have just added new software or a new optional device and the server is not working, complete the following steps before you use the troubleshooting tables:

Step 1. Check the system-error LED on the operator information panel; if it is lit, check the light path diagnostics LEDs (see “Light path diagnostics” on page 133).

Step 2. Remove the software or device that you just added.

Step 3. Run Lenovo Dynamic System Analysis (DSA) to determine whether the server is running correctly (for information about using DSA, see Appendix C “DSA diagnostic test results” on page 989).

Step 4. Reinstall the new software or new device.

## CD/DVD drive problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the IBM support website at http://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information.

*Table 15. CD/DVD drive's symptoms and actions*

| Symptom | Action |
|---|---|
| The optional DVD drive is not recognized. | 1. Make sure that:<br>• The SATA connector to which the DVD drive is attached (primary or secondary) is enabled in the Setup utility.<br>• All cables and jumpers are installed correctly.<br>• The correct device driver is installed for the DVD drive.<br>2. Run the DVD drive diagnostic programs.<br>3. Reseat the following components:<br>a. DVD drive<br>b. DVD drive cable<br>4. Replace the components listed in step 3 one at a time, in the order shown, restarting the server each time. |

*Table 15. CD/DVD drive's symptoms and actions (continued)*

| Symptom | Action |
|---|---|
| | 5. (Trained technician only) Replace the system board. |
| A CD or DVD is not working correctly. | 1. Clean the CD or DVD.<br>2. Replace the CD or DVD with new CD or DVD media.<br>3. Run the DVD drive diagnostic programs.<br>4. Reseat the DVD drive.<br>5. Replace the DVD drive. |
| The DVD drive tray is not working. | 1. Make sure that the server is turned on.<br>2. Insert the end of a straightened paper clip into the manual tray-release opening.<br>3. Reseat the DVD drive.<br>4. Replace the DVD drive. |

## General problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the IBM support website at http://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information.

*Table 16. General symptoms and actions*

| Symptom | Action |
|---|---|
| A cover latch is broken, an LED is not working, or a similar problem has occurred. | If the part is a CRU, replace it. If the part is a microprocessor or the system board, the part must be replaced by a trained technician. |
| The server is hung while the screen is on. Cannot start the Setup utility by pressing F1. | 1. See “Nx-boot failure” on page 165 for more information.<br>2. See “Recovering the server firmware (UEFI update failure)” on page 163 for more information. |

## GPU/VGA adapter problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the IBM support website at http://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information.

*Table 17. GPU/VGA adapter symptoms and actions*

| Symptom | Action |
|---|---|
| Seeing the **Yellow Band** or the **SLOT ERR LED** is lit up in the slot during the installation of 2x nVIDA K20c. | 1. Enable PCI 64 bit resource.<br>2. Change the option ROM execution order (**slot 5 → slot 7 → slot 2**) if you operate in **Legacy mode only OS**. |
| The system hanged or seeing **Yellow Band** in slot 7 or no video output during the installation of nVIDA Q series or K series. | Disable PCI 64 bit resource (except for nVIDA K20c). |

## Hard disk drive problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the IBM support website at http://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information.

*Table 18. Hard disk drive symptoms and actions*

| Symptom | Action |
|---|---|
| Not all drives are recognized by the hard disk drive diagnostic tests. | Remove the drive that is indicated by the diagnostic tests; then, run the hard disk drive diagnostic tests again. If the remaining drives are recognized, replace the drive that you removed with a new one. |
| The server stops responding during the hard disk drive diagnostic test. | Remove the hard disk drive that was being tested when the server stopped responding, and run the diagnostic test again. If the hard disk drive diagnostic test runs successfully, replace the drive that you removed with a new one. |
| A hard disk drive was not detected while the operating system was being started. | Reseat all hard disk drives and cables; then, run the hard disk drive diagnostic tests again. |
| A hard disk drive passes the diagnostic Fixed Disk Test, but the problem remains. | Run the diagnostic SCSI Fixed Disk Test (see “Running DSA Preboot diagnostic programs” on page 145).<br>**Note:** This test is not available on servers that have RAID arrays or servers that have SATA hard disk drives. |

## Hypervisor problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the IBM support website at http://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information.

*Table 19. Hypervisor's symptoms and actions*

| Symptom | Action |
|---|---|
| If an optional embedded hypervisor flash device is not listed in the expected boot order, does not appear in the list of boot devices, or a similar problem has occurred. | 1. Make sure that the optional embedded hypervisor flash device is selected on the boot manager <F12> Select Boot Device at startup.<br>2. Make sure that the embedded hypervisor flash device is seated in the connector correctly (see "Removing a USB embedded hypervisor flash device" on page 270 and "Installing a USB embedded hypervisor flash device" on page 271).<br>3. See the documentation that comes with the optional embedded hypervisor flash device for setup and configuration information.<br>4. Make sure that other software works on the server. |

## Intermittent problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the IBM support website at http://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information.

*Table 20. Intermittent problems and actions*

| Symptom | Action |
|---|---|
| A problem occurs only occasionally and is difficult to diagnose. | 1. Make sure that:<br>• All cables and cords are connected securely to the rear of the server and attached devices.<br>• When the server is turned on, air is flowing from the fan grille. If there is no airflow, the fan is not working. This can cause the server to overheat and shut down.<br>2. Check the system-error log or IMM2 event logs (see "Event logs" on page 141). |

## Keyboard, mouse, or USB-device problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the IBM support website at http://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information.

*Table 21. Keyboard, mouse, or USB-device's symptoms and actions*

| Symptom | Action |
|---|---|
| All or some keys on the keyboard do not work. | 1. Make sure that:<br>• The keyboard cable is securely connected.<br>• The server and the monitor are turned on.<br>2. If you are using a USB keyboard, run the Setup utility and enable keyboardless operation.<br>3. If you are using a USB keyboard and it is connected to a USB hub, disconnect the keyboard from the hub and connect it directly to the server. |

*Table 21. Keyboard, mouse, or USB-device's symptoms and actions (continued)*

| Symptom | Action |
|---|---|
| | 4. Replace the keyboard. |
| The mouse or USB-device does not work. | 1. Make sure that:<br>• The mouse or USB device cable is securely connected to the server.<br>• The mouse or USB device drivers are installed correctly.<br>• The server and the monitor are turned on.<br>• The mouse option is enabled in the Setup utility.<br>2. If you are using a USB mouse or USB device and it is connected to a USB hub, disconnect the mouse or USB device from the hub and connect it directly to the server.<br>3. Replace the mouse or USB-device. |

## Memory problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the IBM support website at http://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information.

*Table 22. Memory problems and actions*

| Symptom | Action |
|---|---|
| The amount of system memory that is displayed is less than the amount of installed physical memory. | **Note:** Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.<br>1. Make sure that:<br>• No error LEDs are lit on the operator information panel.<br>• No DIMM error LEDs are lit on the system board.<br>• Memory mirrored channel does not account for the discrepancy.<br>• The memory modules are seated correctly.<br>• You have installed the correct type of memory.<br>• If you changed the memory, you updated the memory configuration in the Setup utility.<br>• All banks of memory are enabled. The server might have automatically disabled a memory bank when it detected a problem, or a memory bank might have been manually disabled.<br>• There is no memory mismatch when the server is at the minimum memory configuration.<br>2. Reseat the DIMMs, and then restart the server.<br>3. Check the POST error log:<br>• If a DIMM was disabled by a systems-management interrupt (SMI), replace the DIMM.<br>• If a DIMM was disabled by the user or by POST, reseat the DIMM; then, run the Setup utility and enable the DIMM.<br>4. Check that all DIMMs are initialized in the Setup utility; then, run memory diagnostics (see “Running DSA Preboot diagnostic programs” on page 145). |

*Table 22. Memory problems and actions (continued)*

| Symptom | Action |
|---|---|
| | 5. Reverse the DIMMs between the channels (of the same microprocessor), and then restart the server. If the problem is related to a DIMM, replace the failing DIMM.<br>6. Re-enable all DIMMs using the Setup utility, and then restart the server.<br>7. (Trained technician only) Install the failing DIMM into a DIMM connector for microprocessor 2 (if installed) to verify that the problem is not the microprocessor or the DIMM connector.<br>8. (Trained technician only) Replace the system board. |
| Multiple DIMMs in a channel are identified as failing. | **Note:** Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.<br>1. Reseat the DIMMs; then, restart the server.<br>2. Remove the highest-numbered DIMM of those that are identified and replace it with an identical known good DIMM; then, restart the server. Repeat as necessary. If the failures continue after all identified DIMMs are replaced, go to step 4.<br>3. Return the removed DIMMs, one at a time, to their original connectors, restarting the server after each DIMM, until a DIMM fails. Replace each failing DIMM with an identical known good DIMM, restarting the server after each DIMM replacement. Repeat step 3 until you have tested all removed DIMMs.<br>4. Replace the highest-numbered DIMM of those identified; then, restart the server. Repeat as necessary.<br>5. Reverse the DIMMs between the channels (of the same microprocessor), and then restart the server. If the problem is related to a DIMM, replace the failing DIMM.<br>6. (Trained technician only) Install the failing DIMM into a DIMM connector for microprocessor 2 (if installed) to verify that the problem is not the microprocessor or the DIMM connector.<br>7. (Trained technician only) Replace the system board. |

## Microprocessor problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the IBM support website at http://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information.

*Table 23. Microprocessor's symptoms and actions*

| Symptom | Action |
|---|---|
| The server goes directly to the POST Event Viewer when it is turned on. | 1. Correct any errors that are indicated by the light path diagnostics LEDs (see “Light path diagnostics” on page 133).<br>2. Make sure that the server supports all the microprocessors and that the microprocessors match in speed and cache size. To view the microprocessor information, run the Setup utility and select **System Information → System Summary → Processor Details**.<br>3. (Trained technician only) Reseat microprocessor 1<br>4. (Trained technician only) If there is no indication of which microprocessor has failed, isolate the error by testing with one microprocessor at a time. |

*Table 23. Microprocessor's symptoms and actions (continued)*

| Symptom | Action |
|---|---|
| | 5. Replace the following components one at a time, in the order shown, restarting the server each time:<br>a. (Trained technician only) Microprocessor 2<br>b. (Trained technician only) System board<br>6. (Trained technician only) If multiple error codes or light path diagnostics LEDs indicate a microprocessor error, reverse the locations of two microprocessors to determine whether the error is associated with a microprocessor or with a microprocessor socket.<br>• If the error is associated with a microprocessor, replace the microprocessor.<br>• If the error is associated with a microprocessor socket, replace the system board. |

## Monitor problems

Some Lenovo monitors have their own self-tests. If you suspect a problem with your monitor, see the documentation that comes with the monitor for instructions for testing and adjusting the monitor. If you cannot diagnose the problem, call for service.

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the IBM support website at http://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information.

*Table 24. Monitor and video's symptoms and actions*

| Symptom | Action |
|---|---|
| Testing the monitor. | 1. Make sure that the monitor cables are firmly connected.<br>2. Try using a different monitor on the server, or try using the monitor that is being tested on a different server.<br>3. Run the diagnostic programs. If the monitor passes the diagnostic programs, the problem might be a video device driver.<br>4. (Trained technician only) Replace the system board. |
| The screen is blank. | 1. If the server is attached to a KVM switch, bypass the KVM switch to eliminate it as a possible cause of the problem: connect the monitor cable directly to the correct connector on the rear of the server.<br>2. Make sure that:<br>• The server is turned on. If there is no power to the server, see “Power problems” on page 155.<br>• The monitor cables are connected correctly.<br>• The monitor is turned on and the brightness and contrast controls are adjusted correctly.<br>• No POST errors are generated when the server is turned on.<br>3. Make sure that the correct server is controlling the monitor, if applicable.<br>4. See “Solving undetermined problems” on page 161. |

*Table 24. Monitor and video's symptoms and actions (continued)*

| Symptom | Action |
|---|---|
| The monitor works when you turn on the server, but the screen goes blank when you start some application programs. | 1. Make sure that:<br>• The application program is not setting a display mode that is higher than the capability of the monitor.<br>• You installed the necessary device drivers for the application.<br>2. Run video diagnostics (see "Running DSA Preboot diagnostic programs" on page 145).<br>• If the server passes the video diagnostics, the video is good; see "Solving undetermined problems" on page 161.<br>• (Trained technician only) If the server fails the video diagnostics, replace the system board. |
| The monitor has screen jitter, or the screen image is wavy, unreadable, rolling, or distorted. | 1. If the monitor self-tests show that the monitor is working correctly, consider the location of the monitor. Magnetic fields around other devices (such as transformers, appliances, fluorescents, and other monitors) can cause screen jitter or wavy, unreadable, rolling, or distorted screen images. If this happens, turn off the monitor.<br>**Attention:** Moving a color monitor while it is turned on might cause screen discoloration.<br>Move the device and the monitor at least 305 mm (12 in.) apart, and turn on the monitor.<br>**Notes:**<br>a. To prevent diskette drive read/write errors, make sure that the distance between the monitor and any external diskette drive is at least 76 mm (3 in.).<br>b. Non-Lenovo monitor cables might cause unpredictable problems.<br>2. Reseat the monitor and cable.<br>3. Replace the following components one at a time, in the order shown, restarting the server each time:<br>a. Monitor<br>b. (Trained technician only) System board |
| Wrong characters appear on the screen. | 1. If the wrong language is displayed, update the server firmware to the latest level (see "Updating the firmware" on page 103) with the correct language.<br>2. Reseat the monitor and cable.<br>3. Replace the following components one at a time, in the order shown, restarting the server each time:<br>a. Monitor<br>b. (Trained technician only) System board |

## Network connection problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the IBM support website at http://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information.

*Table 25. Network connection problems and actions*

| Symptom | Action |
|---|---|
| Log in failed by using LDAP account with SSL enabled. | 1. Make sure the license key is valid.<br>2. Generate a new license key and log in again. |

## Optional-device problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the IBM support website at http://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information.

*Table 26. Optional-device problems and actions*

| Symptom | Action |
|---|---|
| An Lenovo optional device that was just installed does not work. | 1. Make sure that:<br>• The device is designed for the server (see http://www.lenovo.com/serverproven/).<br>• You followed the installation instructions that came with the device and the device is installed correctly.<br>• You have not loosened any other installed devices or cables.<br>• You updated the configuration information in the Setup utility. Whenever memory or any other device is changed, you must update the configuration.<br>2. Reseat the device that you just installed.<br>3. Replace the device that you just installed. |
| An Lenovo optional device that worked previously does not work now. | 1. Make sure that all of the cable connections for the device are secure.<br>2. If the device comes with test instructions, use those instructions to test the device.<br>3. If the failing device is a SCSI device, make sure that:<br>• The cables for all external SCSI devices are connected correctly.<br>• The last device in each SCSI chain, or the end of the SCSI cable, is terminated correctly.<br>• Any external SCSI device is turned on. You must turn on an external SCSI device before you turn on the server.<br>4. Reseat the failing device.<br>5. Replace the failing device. |

## Power problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the IBM support website at http://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information.

*Table 27. Power problems and actions*

| Symptom | Action |
|---|---|
| The power-control button does not work, and the reset button does not work (the server does not start).<br><br>**Note:** The power-control button will not function until approximately 5 to 10 seconds after the server has been connected to power. | 1. Make sure that the power-control button is working correctly:<br>a. Disconnect the server power cords.<br>b. Reconnect the power cords.<br>c. (Trained technician only) Reseat the operator information panel cable, and then repeat steps 1a and 1b.<br>• (Trained technician only) If the server starts, reseat the operator information panel. If the problem remains, replace the operator information panel.<br>• If the server does not start, bypass the power-control button by using the force power-on jumper (see "System-board switches and jumpers" on page 29). If the server starts, reseat the operator information panel. If the problem remains, replace the operator information panel.<br>2. Make sure that :<br>a. The power cords are correctly connected to the server and to a working electrical outlet.<br>b. The type of memory that is installed is correct.<br>c. The DIMM is fully seated.<br>d. The LEDs on the power supply do not indicate a problem.<br>e. The microprocessors are installed in the correct sequence.<br>3. Reseat the following components:<br>a. DIMMs<br>b. (Trained technician only) Power switch connector<br>c. (Trained technician only) Power backplane<br>4. Replace the following components one at a time, in the order shown, restarting the server each time:<br>a. DIMMs<br>b. (Trained technician only) Power switch connector<br>c. (Trained technician only) Power backplane<br>d. (Trained technician only) System board<br>5. If you just installed an optional device, remove it, and restart the server. If the server now starts, you might have installed more devices than the power supply supports.<br>6. See "Power-supply LEDs" on page 139.<br>7. See "Solving undetermined problems" on page 161. |
| The server does not turn off. | 1. Determine whether you are using an Advanced Configuration and Power Interface (ACPI) or a non-ACPI operating system. If you are using a non-ACPI operating system, complete the following steps:<br>a. Press Ctrl+Alt+Delete.<br>b. Turn off the server by pressing the power-control button for 5 seconds.<br>c. Restart the server.<br>d. If the server fails POST and the power-control button does not work, disconnect the power cord for 5 seconds; then, reconnect the power cord and restart the server.<br>2. If the problem remains or if you are using an ACPI-aware operating system, suspect the system board. |
| The server unexpectedly shuts down, and the LEDs on the | See "Solving undetermined problems" on page 161. |

*Table 27. Power problems and actions (continued)*

| Symptom | Action |
|---|---|
| operator information panel are not lit. | |

## RAID/storage adapter problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the IBM support website at http://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information.

*Table 28. RAID/storage adapter problems and actions*

| Symptom | Action |
|---|---|
| The software NMI/PCI error led is lit when the HDDs/ CPU/ Memory are stressed or during installation of OS. | 1. Check if your CPU's part number is in the following list:<br>• 00D0048 - Microprocessor, Intel Xeon IvyBridge-EP, 2.4 GHz, 30 MB, 1866 MHz, 115 W<br>• 00D0049 - Microprocessor, Intel Xeon IvyBridge-EP, 2.7 GHz, 30 MB, 1866 MHz, 130 W<br>• 40X7385 - Microprocessor, Intel Xeon IvyBridge-EP, 1.8 GHz, 10 MB, 1333 MHz, 80 W<br>• 40X7386 - Microprocessor, Intel Xeon IvyBridge-EP, 2.5 GHz, 10 MB, 1333 MHz, 80 W<br>• 40X7387 - Microprocessor, Intel Xeon IvyBridge-EP, 2.1 GHz, 15 MB, 1600 MHz, 80 W<br>• 40X7388 - Microprocessor, Intel Xeon IvyBridge-EP, 2.6 GHz, 15 MB, 1600 MHz, 80 W<br>• 40X7389 - Microprocessor, Intel Xeon IvyBridge-EP, 2.0 GHz, 20 MB, 1600 MHz, 95 W<br>• 40X7390 - Microprocessor, Intel Xeon IvyBridge-EP, 2.6 GHz, 20 MB, 1866 MHz, 95 W<br>• 40X7391 - Microprocessor, Intel Xeon IvyBridge-EP, 2.2 GHz, 25 MB, 1866 MHz, 95 W<br>• 40X7392 - Microprocessor, Intel Xeon IvyBridge-EP, 2.5 GHz, 25 MB, 1866 MHz, 115 W<br>• 40X7393 - Microprocessor, Intel Xeon IvyBridge-EP, 2.8 GHz, 25 MB, 1866 MHz, 115 W<br>• 40X7394 - Microprocessor, Intel Xeon IvyBridge-EP, 3.0 GHz, 25 MB, 1866 MHz, 130 W<br>• 40X7396 - Microprocessor, Intel Xeon IvyBridge-EP, 3.5 GHz, 15 MB, 1866 MHz, 130 W<br>• 40X7397 - Microprocessor, Intel Xeon IvyBridge-EP, 3.5 GHz, 25 MB, 1866 MHz, 130 W<br>• 40X7398 - Microprocessor, Intel Xeon IvyBridge-EP, 3.3 GHz, 25 MB, 1866 MHz, 130 W<br>• 40X7399 - Microprocessor, Intel Xeon IvyBridge-EP, 2.4 GHz, 15 MB, 1600 MHz, 60 W<br>• 40X7400 - Microprocessor, Intel Xeon IvyBridge-EP, 1.7 GHz, 25 MB, 1600 MHz, 70 W<br>• 40X7436 - Microprocessor, Intel Xeon IvyBridge-EP, 1.9 GHz, 20 MB, 1600 MHz, 70 W<br>• 40X7438 - Microprocessor, Intel Xeon IvyBridge-EP, 1.9 GHz, 25 MB, 1866 MHz, 70 W<br>2. If yes, check the type of the RAID adapter. If the RAID adapter type is M1115, then the maximum number of M1115 is "1" and is only available in slot 1.<br>3. Power off the system and remove the invalid M1115 RAID adapter.<br>4. Reinstall the M1115 RAID adapter in the correct slot and restart the server. |

## Serial port problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.

- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the IBM support website at http://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information.

*Table 29. Serial port problems and actions*

| Symptom | Action |
|---|---|
| The number of serial ports that are identified by the operating system is less than the number of installed serial ports. | 1. Make sure that:<br>• Each port is assigned a unique address in the Setup utility and none of the serial ports is disabled.<br>• The serial-port adapter (if one is present) is seated correctly.<br>2. Reseat the serial port adapter.<br>3. Replace the serial port adapter. |
| A serial device does not work. | 1. Make sure that:<br>• The device is compatible with the server.<br>• The serial port is enabled and is assigned a unique address.<br>• The device is connected to the correct connector.<br>2. Reseat the following components:<br>a. Failing serial device<br>b. Serial cable<br>3. Replace the following components one at a time, in the order shown, restarting the server each time:<br>a. Failing serial device<br>b. Serial cable<br>c. (Trained technician only) System board |
| The serial port might print out some messages for debugging purposes during the uEFI and pDSA configuration stages. Some external devices when attached on the serial port can cause specific device-related behaviors. | 1. In the uEFI console redirection page, disable the serial port setting to stop messages from being printed out via the serial port. |

## ServerGuide problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the IBM support website at http://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information.

*Table 30. ServerGuide problems and actions*

| Symptom | Action |
|---|---|
| The *ServerGuide Setup and Installation* CD will not start. | 1. Make sure that the server supports the ServerGuide program and has a startable (bootable) DVD drive.<br>2. If the startup (boot) sequence settings have been changed, make sure that the DVD drive is first in the startup sequence.<br>3. If more than one DVD drive is installed, make sure that only one drive is set as the primary drive. Start the CD from the primary drive. |
| The ServeRAID Manager program cannot view all installed drives, or the operating system cannot be installed. | 1. Make sure that the hard disk drive is connected correctly.<br>2. Make sure that the SAS hard disk drive cables are securely connected. |
| The operating-system installation program continuously loops. | Make more space available on the hard disk. |
| The ServerGuide program will not start the operating-system CD. | Make sure that the operating-system CD is supported by the ServerGuide program. For a list of supported operating-system versions, go to http://www.ibm.com/support/entry/portal/ docdisplay?lndocid=SERV-GUIDE, click the link for your ServerGuide version, and scroll down to the list of supported Microsoft Windows operating systems. |
| The operating system cannot be installed; the option is not available. | Make sure that the server supports the operating system. If it does, either no logical drive is defined (SCSI RAID servers), or the ServerGuide System Partition is not present. Run the ServerGuide program and make sure that setup is complete. |

## Software problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the IBM support website at http://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information.

*Table 31. Software problems and actions*

| Symptom | Action |
|---|---|
| You suspect a software problem. | 1. To determine whether the problem is caused by the software, make sure that:<br>• The server has the minimum memory that is needed to use the software. For memory requirements, see the information that comes with the software. If you have just installed an adapter or memory, the server might have a memory-address conflict.<br>• The software is designed to operate on the server.<br>• Other software works on the server.<br>• The software works on another server.<br>2. If you received any error messages when using the software, see the information that comes with the software for a description of the messages and suggested solutions to the problem.<br>3. Contact the software vendor. |

## Universal Serial Bus (USB) port problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the IBM support website at http://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information.

*Table 32. Universal Serial Bus (USB) port problems and actions*

| Symptom | Action |
|---|---|
| A USB device does not work. | 1. Make sure that:<br>• The correct USB device driver is installed.<br>• The operating system supports USB devices.<br>2. Make sure that the USB configuration options are set correctly in the Setup utility (see “Using the Setup utility” on page 107 for more information).<br>3. If you are using a USB hub, disconnect the USB device from the hub and connect it directly to the server. |

## Solving power problems

Use this information to solve power problems.

Power problems can be difficult to solve. For example, a short circuit can exist anywhere on any of the power distribution buses. Usually, a short circuit will cause the power subsystem to shut down because of an overcurrent condition. To diagnose a power problem, use the following general procedure:

Step 1. Turn off the server and disconnect all power cords.

Step 2. Check for loose cables in the power subsystem. Also check for short circuits, for example, if a loose screw is causing a short circuit on a circuit board.

Step 3. Check the lit LEDs on the light path diagnostics panel (see “Light path diagnostics LEDs” on page 135).

Step 4. Remove the adapters and disconnect the cables and power cords to all internal and external devices until the server is at the minimum configuration that is required for the server to start (see “Solving undetermined problems” on page 161).

Step 5. Reconnect all ac power cords and turn on the server. If the server starts successfully, reseat the adapters and devices one at a time until the problem is isolated.

If the server does not start from the minimum configuration, see “Power-supply LEDs” on page 139 to replace the components in the minimum configuration one at a time until the problem is isolated.

## Solving Ethernet controller problems

Use this information to solve the Ethernet controller problems.

The method that you use to test the Ethernet controller depends on which operating system you are using. See the operating-system documentation for information about Ethernet controllers, and see the Ethernet controller device-driver readme file.

Try the following procedures:

Step 1. Make sure that the correct device drivers, which come with the server are installed and that they are at the latest level.

Step 2. Make sure that the Ethernet cable is installed correctly.

- The cable must be securely attached at all connections. If the cable is attached but the problem remains, try a different cable.
- If you set the Ethernet controller to operate at 100 Mbps, you must use Category 5 cabling.
- If you directly connect two servers (without a hub), or if you are not using a hub with X ports, use a crossover cable. To determine whether a hub has an X port, check the port label. If the label contains an X, the hub has an X port.

Step 3. Determine whether the hub supports auto-negotiation. If it does not, try configuring the integrated Ethernet controller manually to match the speed and duplex mode of the hub.

Step 4. Check the Ethernet controller LEDs on the rear panel of the server. These LEDs indicate whether there is a problem with the connector, cable, or hub.

- The Ethernet link status LED is lit when the Ethernet controller receives a link pulse from the hub. If the LED is off, there might be a defective connector or cable or a problem with the hub.
- The Ethernet transmit/receive activity LED is lit when the Ethernet controller sends or receives data over the Ethernet network. If the Ethernet transmit/receive activity is off, make sure that the hub and network are operating and that the correct device drivers are installed.

Step 5. Check the LAN activity LED on the rear of the server. The LAN activity LED is lit when data is active on the Ethernet network. If the LAN activity LED is off, make sure that the hub and network are operating and that the correct device drivers are installed.

Step 6. Check for operating-system-specific causes of the problem.

Step 7. Make sure that the device drivers on the client and server are using the same protocol.

If the Ethernet controller still cannot connect to the network but the hardware appears to be working, the network administrator must investigate other possible causes of the error.

## Solving undetermined problems

If Dynamic System Analysis (DSA) cannot diagnose the failure or if the server is inoperative, use the information in this section to solve the undetermined problems.

If you suspect that a software problem is causing failures (continuous or intermittent), see “Software problems” on page 159.

Corrupted data in CMOS memory or corrupted UEFI firmware can cause undetermined problems. To reset the CMOS data, use the CMOS clear jumper (JP1) to clear the CMOS memory and override the power-on password; see “System-board internal connectors” on page 27 for more information. If you suspect that the UEFI firmware is corrupted, see “Recovering the server firmware (UEFI update failure)” on page 163.

If the power supplies are working correctly, complete the following steps:

Step 1. Turn off the server.

Step 2. Make sure that the server is cabled correctly.

Step 3. Remove or disconnect the following devices, one at a time, until you find the failure. Turn on the server and reconfigure it each time.

- Any external devices.
- Surge-suppressor device (on the server).
- Printer, mouse, and non-Lenovo devices.
- Each adapter.

- Hard disk drives.

**Note:** The minimum configuration required for the server to start is one microprocessor and one 2 GB DIMM.

Step 4. Turn on the server. If the problem remains, suspect the following components in the following order:

1. Power supply
2. Memory
3. Microprocessor
4. System board

If the problem is solved when you remove an adapter from the server but the problem recurs when you reinstall the same adapter, suspect the adapter; if the problem recurs when you replace the adapter with a different one, suspect the riser card.

If you suspect a networking problem and the server passes all the system tests, suspect a network cabling problem that is external to the server.

## Problem determination tips

Because of the variety of hardware and software combinations that can encounter, use the following information to assist you in problem determination. If possible, have this information available when requesting assistance from Lenovo.

- Machine type and model
- Microprocessor or hard disk drive upgrades
- Failure symptom
  - Does the server fail the diagnostic tests?
  - What occurs? When? Where?
  - Does the failure occur on a single server or on multiple servers?
  - Is the failure repeatable?
  - Has this configuration ever worked?
  - What changes, if any, were made before the configuration failed?
  - Is this the original reported failure?
- Diagnostic program type and version level
- Hardware configuration (print screen of the system summary)
- UEFI firmware level
- IMM firmware level
- Operating system software

You can solve some problems by comparing the configuration and software setups between working and nonworking servers. When you compare servers to each other for diagnostic purposes, consider them identical only if all the following factors are exactly the same in all the servers:

- Machine type and model
- UEFI firmware level
- IMM firmware level
- Adapters and attachments, in the same locations

- Address jumpers, terminators, and cabling
- Software versions and levels
- Diagnostic program type and version level
- Configuration option settings
- Operating-system control-file setup

See Appendix D “Getting help and technical assistance” on page 1147 for information about calling Lenovo for service.

## Recovering the server firmware (UEFI update failure)

Use this information to recover the server firmware.

**Important:** Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.

If the server firmware has become corrupted, such as from a power failure during an update, you can recover the server firmware in the following way:

- **In-band method:** Recover server firmware, using either the boot block jumper (Automated Boot Recovery) and a server Firmware Update Package Service Pack.
- **Out-of-band method:** Use the IMM2 web interface to update the firmware, using the latest server firmware update package.

**Notes:** You can obtain a server update package from one of the following sources:

- Download the server firmware update from the World Wide Web.
- Contact your Lenovo service representative.

To download the server firmware update package from the World Wide Web, go to http://www.lenovo.com/support.

The flash memory of the server consists of a primary bank and a backup bank. You must maintain a bootable UEFI firmware image in the backup bank. If the server firmware in the primary bank becomes corrupted, you can either manually boot the backup bank with the UEFI boot backup jumper (JP2), or in the case of image corruption, this will occur automatically with the Automated Boot Recovery function.

## In-band manual recovery method

This section details the in-band manual recovery method.

To recover the server firmware and restore the server operation to the primary bank, complete the following steps:

Step 1. Read the safety information that begins on “Safety” on page v and “Installation guidelines” on page 35.

Step 2. Turn off the server, and disconnect all power cords and external cables.

Step 3. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 40).

Step 4. Locate SW4 on the system board.

Step 5. Change the position of the UEFI boot backup switch (change switch 1 of the SW4 to the on position) to enable the UEFI recovery mode.

Step 6. Reinstall the server cover; then, reconnect all power cords.

Step 7. Restart the server. The system begins the power-on self-test (POST).

Step 8. Boot the server to an operating system that is supported by the firmware update package that you downloaded.

Step 9. Perform the firmware update by following the instructions that are in the firmware update package readme file.

Step 10. Turn off the server and disconnect all power cords and external cables, and then remove the left-side cover (see “Removing the left-side cover” on page 40).

Step 11. Change the position of the UEFI boot backup switch back (change switch 1 of the SW4 to the off position).

Step 12. Reinstall the left-side cover (see “Installing the left-side cover” on page 185).

Step 13. Reconnect the power cord and any cables that you removed.

Step 14. Restart the server. The system begins the power-on self-test (POST). If this does not recover the primary bank, continue with the following steps.

Step 15. Remove the left-side cover (see “Removing the left-side cover” on page 40).

Step 16. Reset the CMOS by removing the system battery (see “Removing the system battery” on page 233).

Step 17. Leave the system battery out of the server for approximately 5 to 15 minutes.

Step 18. Reinstall the system battery (see “Installing the system battery” on page 235).

Step 19. Reinstall the left-side cover (see “Installing the left-side cover” on page 185).

Step 20. Reconnect the power cord and any cables that you removed.

Step 21. Restart the server. The system begins the power-on self-test (POST).

Step 22. If these recovery efforts fail, contact your Lenovo service representative for support.

## In-band automated boot recovery method

This section details the in-band automated boot recovery method.

**Note:** Use this method if the System board LED on the light path diagnostics panel is lit and there is a log entry or `Booting Backup Image` is displayed on the firmware splash screen; otherwise, use the in-band manual recovery method.

Step 1. Boot the server to an operating system that is supported by the firmware update package that you downloaded.

Step 2. Perform the firmware update by following the instructions that are in the firmware update package readme file.

Step 3. Restart the server.

Step 4. At the firmware splash screen, press F3 when prompted to restore to the primary bank. The server boots from the primary bank.

## Out-of-band method

See the IMM2 documentation (*Integrated Management Module II User's Guide*) at http://www.ibm.com/support/entry/portal/docdisplay?lndocid=migr-5086346.

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## Automated boot recovery (ABR)

Use this information for Automated boot recovery (ABR).

While the server is starting, if the integrated management module II detects problems with the server firmware in the primary bank, the server automatically switches to the backup firmware bank and gives you the opportunity to recover the firmware in the primary bank. For instructions for recovering the UEFI firmware, see “Recovering the server firmware (UEFI update failure)” on page 163. After you have recovered the firmware in the primary bank, complete the following steps:

Step 1. Restart the server.

Step 2. When the prompt **Press F3 to restore to primary** is displayed, press `F3` to start the server from the primary bank.

## Nx-boot failure

Use this information for Nx-boot failure.

Configuration changes, such as added devices or adapter firmware updates, and firmware or application code problems can cause the server to fail POST (the power-on self-test). If this occurs, the server responds in either of the following ways:

- The server restarts automatically and attempts POST again.
- The server hangs, and you must manually restart the server for the server to attempt POST again.

After a specified number of consecutive attempts (automatic or manual), the Nx-boot failure feature causes the server to revert to the default UEFI configuration and start the Setup utility so that you can make the necessary corrections to the configuration and restart the server. If the server is unable to successfully complete POST with the default configuration, there might be a problem with the system board.

To specify the number of consecutive restart attempts that will trigger the Nx-boot failure feature, in the Setup utility, click **System Settings → Recovery → POST Attempts → POST Attempts Limit**. The available options are 3, 6, 9, and 255 (disable Nx-boot failure).

# Chapter 5. Parts listing, Lenovo System x3500 M4 Type 7383

The parts listing of Lenovo System x3500 M4 Type 7383.

The following replaceable components are available for the Lenovo System x3500 M4 Type 7383 server, except as specified otherwise in “Replaceable server components” on page 167. For an updated parts listing, go to http://www.lenovo.com/support.

## Replaceable server components

The replaceable server components for Lenovo System x3500 M4 Type 7383.

Replaceable components consist of structural parts, and field replaceable units (FRUs):

- **Structural parts:** Purchase and replacement of structural parts (components, such as chassis assembly, top cover, and bezel) is your responsibility. If Lenovo acquires or installs a structural component at your request, you will be charged for the service. See “Structural parts” on page 176 for the list of structural parts.
- **Consumable parts:** Purchase and replacement of consumable parts is your responsibility. If Lenovo acquires or installs a consumable component at your request, you will be charged for the service.
- **Tier 1 customer replaceable unit (CRU):** Replacement of Tier 1 CRUs is your responsibility. If Lenovo installs a Tier 1 CRU at your request, you will be charged for the installation.
- **Tier 2 customer replaceable unit:** You may install a Tier 2 CRU yourself or request Lenovo to install it, at no additional charge, under the type of warranty service that is designated for your server.

For information about the terms of the warranty and getting service and assistance, see the *Warranty Information* document that comes with the server. For more information about getting service and assistance, see Appendix D “Getting help and technical assistance” on page 1147.

Visit http://www.lenovo.com/ serverproven/ for the latest options supporting plan.

The following illustration shows the major components in the server. The illustrations in this document might differ slightly from your hardware. For a list of structural parts, see “Structural parts” on page 176.

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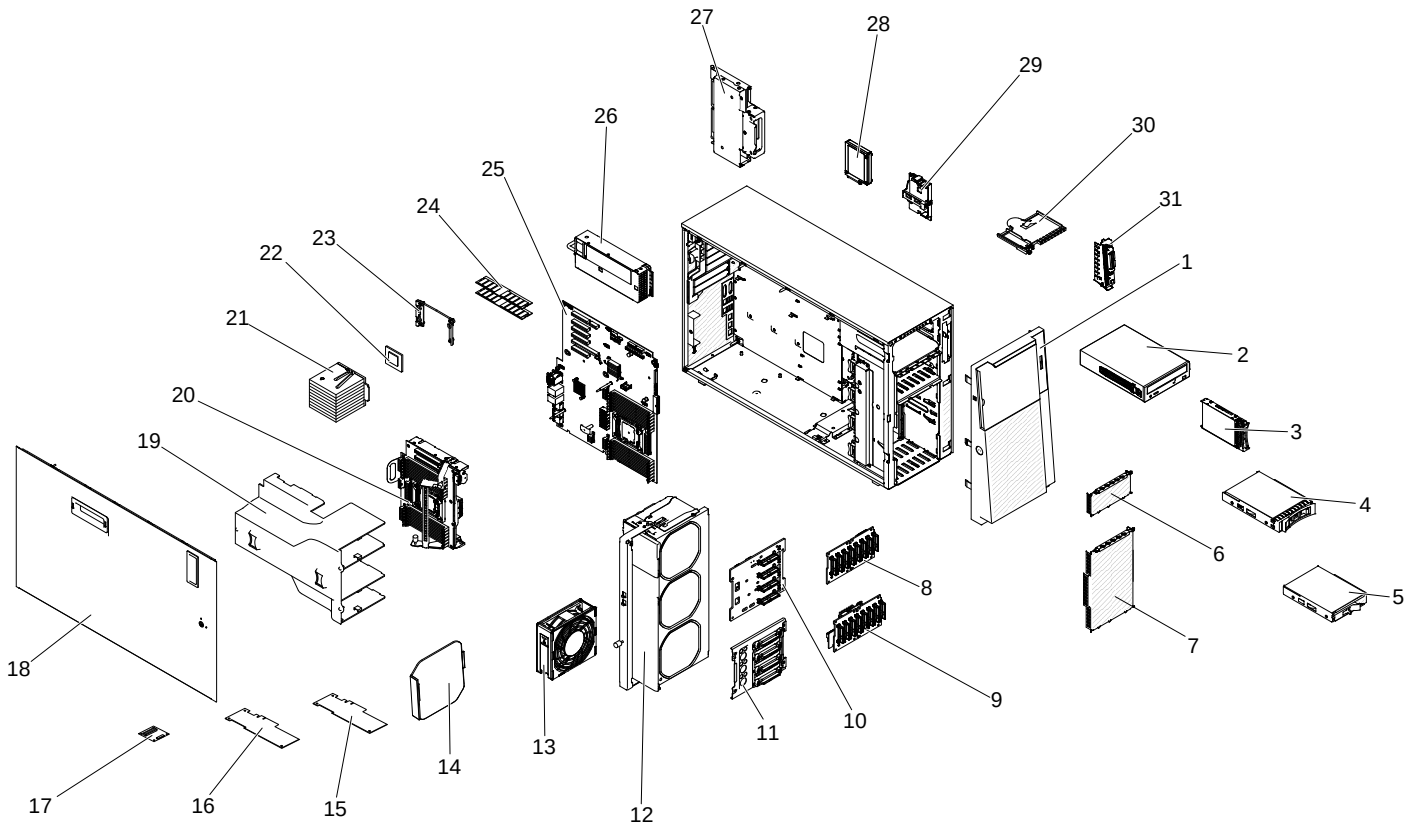


*Figure 91. Server components*

The following table lists the part numbers for the server replaceable components.

| Index | Description | CRU part number (Tier 1) | CRU part number (Tier 2) |
|---|---|---|---|
| 2 | DVD-ROM drive | 43W8466 | |
| 2 | DVD-RW drive | 43W8467 | |
| 3 | Hard disk drive, 2.5-inch hot-swap, 250 GB, 7.2 K, SATA | 81Y9723 | |
| 3 | Hard disk drive, 2.5-inch hot-swap, 500 GB, 7.2 K, SATA | 81Y9727 | |
| 3 | Hard disk drive, 2.5-inch hot-swap, 1 TB, 7.2 K, SATA | 81Y9731 | |
| 3 | Hard disk drive, 2.5-inch hot-swap, 128 GB, SATA Slim | 90Y8649 | |
| 3 | Hard disk drive, 2.5-inch hot-swap, 250 GB, SATA Slim | 90Y8644 | |
| 3 | Hard disk drive, 2.5-inch hot-swap, 500 GB, 7.2 K, NL SAS | 00NA857 | |
| 3 | Hard disk drive, 2.5-inch hot-swap, 1 TB, 7.2 K, NL SAS | 81Y9691 | |
| 3 | Hard disk drive, 2.5-inch hot-swap, 300 GB, 10 K, SAS | 90Y8878 | |
| 3 | Hard disk drive, 2.5-inch hot-swap, 600 GB, 10 K, SAS | 90Y8873 | |
| 3 | Solid state drive, 2.5-inch hot-swap, 64 GB, SATA MLC | 49Y5840 | |
| 3 | Solid state drive, 2.5-inch hot-swap, 100 GB, SATA MLC | 00W1126 | |
| 3 | Solid state drive, 2.5-inch hot-swap Enterprise Value, 120 GB, SATA MLC | 00AJ356 | |

| Index | Description | CRU part number (Tier 1) | CRU part number (Tier 2) |
|---|---|---|---|
| 3 | Solid state drive, 2.5-inch hot-swap, 200 GB, SATA MLC | 43W7721 | |
| 3 | Solid state drive, 2.5-inch hot-swap, 240 GB, SATA MLC | 00FN299 | |
| 3 | Solid state drive, 2.5-inch hot-swap Enterprise Value, 240GB, SATA MLC | 00AJ361 | |
| 3 | Solid state drive, 2.5-inch hot-swap, 480GB, SATA MLC | 00FN328 | |
| 3 | Solid state drive, 2.5-inch hot-swap Enterprise Value, 480GB, SATA MLC | 00AJ366 | |
| 3 | Solid state drive, 2.5-inch hot-swap, 960 GB, SATA MLC | 00FN333 | |
| 3 | Solid state drive, 2.5-inch hot-swap, 512 GB SATA MLC | 49Y5845 | |
| 3 | Solid state drive, 2.5-inch hot-swap, 800 GB, SAS MLC | 49Y6140 | |
| 3 | Solid state drive, 2.5-inch hot-swap Enterprise Value, 800 GB, SAS MLC | 00AJ371 | |
| 3 | Hard disk drive, 2.5-inch hot-swap, 300 GB, 10 K, SAS SED | 90Y8914 | |
| 3 | Hard disk drive, 2.5-inch hot-swap, 600 GB, 10 K, SAS SED | 90Y8909 | |
| 3 | Hard disk drive, 2.5-inch hot-swap, 900 GB, 10 K, SAS SED | 81Y9663 | |
| 3 | Hard disk drive, 2.5-inch hot-swap, 146 GB, 15 K, SAS | 90Y8927 | |
| 3 | Hard disk drive, 2.5-inch hot-swap, 146 GB, 15 K, SAS SED | 90Y8945 | |
| 4 | Hard disk drive, 3.5-inch hot-swap, 500 GB, 7.2 K, NL SATA | 81Y9787 | |
| 4 | Hard disk drive, 3.5-inch hot-swap, 1 TB, 7.2 K, NL SATA | 81Y9791 | |
| 4 | Hard disk drive, 3.5-inch hot-swap, 2 TB, 7.2 K, NL SATA | 81Y9795 | |
| 4 | Hard disk drive, 3.5-inch G2 hot-swap, 2TB, 7.2 K, 6Gbps, 512e, NL SATA | 00FN114 | |
| 4 | Hard disk drive, 3.5-inch simple-swap, 1 TB, 7.2 K, NL SATA | 81Y9807 | |
| 4 | Hard disk drive, 3.5-inch G2 simple-swap, 2TB, 7.2 K, 6Gbps, 512e, NL SATA | 00FN119 | |
| 4 | Hard disk drive, 3.5-inch G2 hot-swap, 3TB, 7.2 K, 6Gbps, 512e, NL SATA | 00FN129 | |
| 4 | Hard disk drive, 3.5-inch G2 simple-swap, 3TB, 7.2 K, 6Gbps, 512e, NL SATA | 00FN134 | |
| 4 | Hard disk drive, 3.5-inch G2 hot-swap, 4TB, 7.2 K, 6Gbps, 512e, NL SATA | 00FN144 | |
| 4 | Hard disk drive, 3.5-inch G2 simple-swap, 4TB, 7.2 K, 6Gbps, 512e, NL SATA | 00FN149 | |
| 4 | Hard disk drive, 3.5-inch G2 hot-swap, 5TB, 7.2 K, 6Gbps, 512e, NL SATA | 00FN159 | |
| 4 | Hard disk drive, 3.5-inch G2 simple-swap, 5TB, 7.2 K, 6Gbps, 512e, NL SATA | 00FN164 | |
| 4 | Hard disk drive, 3.5-inch G2 hot-swap, 6TB, 7.2 K, 6Gbps, 512e, NL SATA | 00FN174 | |
| 4 | Hard disk drive, 3.5-inch G2 simple-swap, 6TB, 7.2 K, 6Gbps, 512e, NL SATA | 00FN179 | |
| 4 | Hard disk drive, 3.5-inch hot-swap, 1 TB, 7.2 K, NL SAS | 90Y8568 | |

| Index | Description | CRU part number (Tier 1) | CRU part number (Tier 2) |
|---|---|---|---|
| 4 | Hard disk drive, 3.5-inch hot-swap, 2 TB, 7.2 K, NL SAS | 90Y8573 | |
| 4 | Hard disk drive, 3.5-inch G2 hot-swap, 2TB, 7.2 K, 6Gbps, 512e, NL SAS | 00ML204 | |
| 4 | Hard disk drive, 3.5-inch G2 hot-swap, 2TB, 7.2 K, 12Gbps, 512e, NL SAS | 00FN189 | |
| 4 | Hard disk drive, 3.5-inch hot-swap, 3 TB, 7.2 K, NL SAS | 90Y8578 | |
| 4 | Hard disk drive, 3.5-inch G2 hot-swap, 4TB, 7.2 K, 6Gbps, 512e, NL SAS | 00ML209 | |
| 4 | Hard disk drive, 3.5-inch G2 hot-swap, 4TB, 7.2 K, 12Gbps, 512e, NL SAS | 00FN209 | |
| 4 | Hard disk drive, 3.5-inch G2 hot-swap, 6TB, 7.2 K, 6Gbps, 512e, NL SAS | 00ML214 | |
| 4 | Hard disk drive, 3.5-inch G2 hot-swap, 6TB, 7.2 K, 12Gbps, 512e, NL SAS | 00FN229 | |
| 4 | Hard disk drive, 3.5-inch hot-swap, 300 GB, 15K, SAS | 49Y6093 | |
| 4 | Hard disk drive, 3.5-inch hot-swap, 450 GB, 15K, SAS | 49Y6098 | |
| 4 | Hard disk drive, 3.5-inch hot-swap, 600 GB, 15K, SAS | 49Y6103 | |
| 4 | Self-Encrypting drive, 3.5-inch G2 hot-swap, 2TB, 7.2 K, 6Gbps, 512e, NL SAS | 00ML219 | |
| 4 | Self-Encrypting drive, 3.5-inch G2 hot-swap, 2TB, 7.2 K, 12Gbps, 512e, NL SAS | 00FN239 | |
| 4 | Self-Encrypting drive, 3.5-inch G2 hot-swap, 4TB, 7.2 K, 6Gbps, 512e, NL SAS | 00ML224 | |
| 4 | Self-Encrypting drive, 3.5-inch G2 hot-swap, 4TB, 7.2 K, 12Gbps, 512e, NL SAS | 00FN249 | |
| 4 | Self-Encrypting drive, 3.5-inch G2 hot-swap, 6TB, 7.2 K, 6Gbps, 512e, NL SAS | 00ML229 | |
| 4 | Self-Encrypting drive, 3.5-inch G2 hot-swap, 6TB, 7.2 K, 12Gbps, 512e, NL SAS | 00FN259 | |
| 5 | Hard disk drive, 3.5-inch simple-swap, 500 GB, 7.2 K | 81Y9803 | |
| 5 | Hard disk drive, 3.5-inch simple-swap, 2 TB, 7.2 K | 81Y9811 | |
| 8 | Backplane, 2.5-inch | 46W9187 | |
| 9 | Backplane, 2.5-inch (with expander) | 46W8418 | |
| 10 | Backplane, 3.5-inch | 49Y4462 | |
| 11 | Backplate assembly, 3.5-inch simple-swap | 94Y7746 | |
| 12 | Fan cage assembly | 94Y7735 | |
| 13 | Fan module, simple-swap | 94Y7733 | |
| 15 | ServeRAID M5120 SAS/SATA adapter | 00AE811 | |
| 15 | ServeRAID M5110 SAS/SATA adapter | 00AE807 | |
| 15 | ServeRAID M1115 SAS/SATA adapter | 46C8928 | |
| 15 | ServeRAID M5210 SAS/SATA adapter | 46C9111 | |
| 15 | 6 Gb Performance Optimized HBA | 46C8937 | |

| Index | Description | CRU part number (Tier 1) | CRU part number (Tier 2) |
|---|---|---|---|
| 16 | Emulex 16 Gb FC single-port HBA | 81Y1658 | |
| 16 | Emulex 16 Gb FC dual-port HBA | 81Y1665 | |
| 16 | Emulex 8Gb FC Single-port HBA | 00JY847 | |
| 16 | Emulex 8Gb FC Dual-port HBA | 00JY848 | |
| 16 | Brocade 16 Gb FC single-port HBA | 81Y1671 | |
| 16 | Brocade 16 Gb FC dual-port HBA | 81Y1678 | |
| 16 | Emulex 10 GbE virtual fabric adapter III | 95Y3766 | |
| 16 | QLogic 8 GB FC dual-port HBA | 42D0516 | |
| 16 | QLogic 16 GB FC single-port HBA | 00Y3340 | |
| 16 | QLogic 16 GB FC dual-port HBA | 00Y3344 | |
| 16 | Broadcom NetXtreme quad-port GbE adapter | 90Y9355 | |
| 16 | Broadcom NetXtreme dual-port GbE adapter | 90Y9373 | |
| 16 | 365 GB High IOPS MLC Mono adapter | 46C9079 | |
| 16 | 785 GB High IOPS MLC Mono adapter | 46C9082 | |
| 16 | 1.2 TB High IOPS MLC Mono adapter | 90Y4378 | |
| 16 | 300 GB High IOPS MLC modular adapter | 90Y4362 | |
| 16 | 600 GB High IOPS MLC modular adapter | 90Y4366 | |
| 16 | 800 GB High IOPS MLC modular adapter | 90Y4370 | |
| 16 | 300 GB High IOPS SLC modular adapter | 90Y4374 | |
| 16 | 6 Gb SAS HBA | 46C8935 | |
| 16 | N2215 SAS/SATA HBA | 47C8676 | |
| 16 | Video adapter, NVIDIA Quadro 6000 | 43V5921 | |
| 16 | Video adapter, NVIDIA Quadro K600 | 90Y2383 | |
| 16 | Video adapter, NVIDIA Quadro K2000 | 90Y2379 | |
| 16 | Video adapter, NVIDIA Quadro K4000 | 90Y2375 | |
| 16 | Video adapter, NVIDIA Quadro K5000 | 90Y2387 | |
| 16 | Video adapter, NVIDIA Tesla K20 (active cooling solution) | 90Y2391 | |
| 17 | ServeRAID M5100 series 512 MB cache (RAID 5 upgrade) | 81Y4485 | |
| 17 | ServeRAID M5100 series 512 MB cache (RAID 5 upgrade) | 46C9027 | |
| 17 | ServeRAID M5100 series 1 GB cache (RAID 5 upgrade) | 46C9029 | |
| 17 | ServeRAID M5200 Series 1 GB cache (RAID 5 Upgrade) | 47C8657 | |
| 17 | ServeRAID M5200 Series 1 GB Flash (RAID 5 Upgrade) | 47C8661 | |
| 17 | ServeRAID M5200 Series 2 GB Flash (RAID 5 Upgrade) | 47C8665 | |
| 20 | Microprocessor 2 expansion board | | 00Y8251 |
| 20 | Microprocessor 2 expansion board | | 00Y8288 |
| 20 | Microprocessor 2 expansion board | | 00AL017 |
| 21 | Heat sink assembly | | 94Y7740 |

| Index | Description | CRU part number (Tier 1) | CRU part number (Tier 2) |
|---|---|---|---|
| 22 | Microprocessor, Intel Xeon E5-2603 v2, 1.8 GHz, 10 MB, 1333 MHz, 80 W (4-core) | | 00Y2778 |
| 22 | Microprocessor, Intel Xeon E5-2609 v2, 2.5 GHz, 10 MB, 1333 MHz, 80 W (4-core) | | 00Y2779 |
| 22 | Microprocessor, Intel Xeon E5-2620 v2, 2.1 GHz, 15 MB, 1600 MHz, 80 W (6-core) | | 00Y2780 |
| 22 | Microprocessor, Intel Xeon E5-2628L v2, 1.9 GHz, 20 MB, 1600 MHz, 70 W (8-core) | | 00AE525 |
| 22 | Microprocessor, Intel Xeon E5-2630 v2, 2.6 GHz, 15 MB, 1600 MHz, 80 W (6-core) | | 00Y2781 |
| 22 | Microprocessor, Intel Xeon E5-2630L v2, 2.6 GHz, 15 MB, 1600 MHz, 60 W (6-core) | | 00Y2792 |
| 22 | Microprocessor, Intel Xeon E5-2637 v2, 3.5 GHz, 15 MB, 1866 MHz, 130 W (4-core) | | 00Y2789 |
| 22 | Microprocessor, Intel Xeon E5-2640 v2, 2.0 GHz, 20 MB, 1600 MHz, 95 W (8-core) | | 00Y2782 |
| 22 | Microprocessor, Intel Xeon E5-2643 v2, 3.5 GHz, 25 MB, 1866 MHz, 130 W (6-core) | | 00Y2790 |
| 22 | Microprocessor, Intel Xeon E5-2648L v2, 1.9 GHz, 25 MB, 1866 MHz, 70 W (10-core) | | 00AE523 |
| 22 | Microprocessor, Intel Xeon E5-2650 v2, 2.6 GHz, 20 MB, 1866 MHz, 95 W (8-core) | | 00Y2783 |
| 22 | Microprocessor, Intel Xeon E5-2650L v2, 1.7 GHz, 25 MB, 1600 MHz, 70 W (10-core) | | 00Y2793 |
| 22 | Microprocessor, Intel Xeon E5-2660 v2, 2.2 GHz, 25 MB, 1866 MHz, 95 W (10-core) | | 00Y2784 |
| 22 | Microprocessor, Intel Xeon E5-2667 v2, 3.3 GHz, 25 MB, 1866 MHz, 130 W (8-core) | | 00Y2791 |
| 22 | Microprocessor, Intel Xeon E5-2670 v2, 2.5 GHz, 25 MB, 1866 MHz, 115 W (10-core) | | 00Y2785 |
| 22 | Microprocessor, Intel Xeon E5-2680 v2, 2.8 GHz, 25 MB, 1866 MHz, 115 W (10-core) | | 00Y2786 |
| 22 | Microprocessor, Intel Xeon E5-2690 v2, 3.0 GHz, 25 MB, 1866 MHz, 130 W (10-core) | | 00Y2787 |
| 22 | Microprocessor, Intel Xeon E5-2695 v2, 2.4 GHz, 30 MB, 1866 MHz, 115 W (12-core) | | 00Y2776 |
| 22 | Microprocessor, Intel Xeon E5-2697 v2, 2.7 GHz, 30 MB, 1866 MHz, 130 W (12-core) | | 00Y2777 |
| 22 | Microprocessor, Intel Xeon E5-2690, 2.90 GHz, 20 MB, 1600 MHz, 135 W (8 core) | | 49Y8115 |
| 22 | Microprocessor, Intel Xeon E5-2637, 3.00 GHz, 5 MB, 1066 MHz, 80 W (2 core) | | 49Y8124 |
| 22 | Microprocessor, Intel Xeon E5-2665, 2.40 GHz, 20 MB, 115 W (8 core) | | 49Y8142 |
| 22 | Microprocessor, Intel Xeon E5-2650L, 1.80 GHz, 20 MB, 1600 MHz, 70 W (8 core) | | 81Y5160 |

| Index | Description | CRU part number (Tier 1) | CRU part number (Tier 2) |
|---|---|---|---|
| 22 | Microprocessor, Intel Xeon E5-2603, 1.80 GHz, 10 MB, 1066 MHz, 80 W (4 core) | | 81Y5161 |
| 22 | Microprocessor, Intel Xeon E5-2609, 2.40 GHz, 10 MB, 1066 MHz, 80 W (4 core) | | 81Y5163 |
| 22 | Microprocessor, Intel Xeon E5-2630L 2.00 GHz, 15 MB, 1333 MHz, 60 W (6 core) | | 81Y5204 |
| 22 | Microprocessor, Intel Xeon E5-2620, 2.00 GHz, 15 MB, 1333 MHz, 95 W (6 core) | | 81Y5164 |
| 22 | Microprocessor, Intel Xeon E5-2630, 2.30 GHz, 15 MB, 1333 MHz, 95 W (6 core) | | 81Y5165 |
| 22 | Microprocessor, Intel Xeon E5-2640, 2.50 GHz, 15 MB, 1333 MHz, 95 W (6 core) | | 81Y5166 |
| 22 | Microprocessor, Intel Xeon E5-2650, 2.00 GHz, 20 MB, 1600 MHz, 95 W (8 core) | | 81Y5167 |
| 22 | Microprocessor, Intel Xeon E5-2660, 2.20 GHz, 20 MB, 1600 MHz, 95 W (8 core) | | 81Y5168 |
| 22 | Microprocessor, Intel Xeon E5-2680, 2.70 GHz, 20 MB, 1600 MHz, 130 W (8 core) | | 81Y5169 |
| 22 | Microprocessor, Intel Xeon E5-2667, 2.90 GHz, 15 MB, 1600 MHz, 130 W (6 core) | | 81Y5170 |
| 22 | Microprocessor, Intel Xeon E5-2643, 3.30 GHz, 10 MB, 1600 MHz, 130 W (4 core) | | 81Y5171 |
| 22 | Microprocessor, Intel Xeon E5-2648L, 1.80 GHz, 20 MB, 1600 MHz, 70 W (8 core) | | 95Y4671 |
| 22 | Microprocessor, Intel Xeon E5-2658, 2.10 GHz, 20 MB, 1600 MHz, 95 W (8 core) | | 95Y4676 |
| 22 | Microprocessor, Intel Xeon E5-2670, 2.60 GHz, 20 MB, 1600 MHz, 115 W (8 core) | | 81Y9419 |
| 23 | Retention module, heat sink | | 94Y7739 |
| 24 | Memory, 4 GB dual-rank 1.35 V, DDR3, 1333 MHz, UDIMM | 49Y1422 | |
| 24 | Memory, 4 GB dual-rank 1.35 V, DDR3, 1600 MHz, UDIMM | 00D5014 | |
| 24 | Memory, 8 GB dual-rank 1.35 V, DDR3, 1600 MHz, UDIMM | 00D5018 | |
| 24 | Memory, 2 GB single-rank 1.35 V, DDR3, 1333 MHz, RDIMM | 49Y1421 | |
| 24 | Memory, 2 GB single-rank 1.35 V, DDR3, 1333 MHz, RDIMM | 49Y1423 | |
| 24 | Memory, 4 GB single-rank 1.35 V, DDR3, 1333 MHz, RDIMM | 49Y1424 | |
| 24 | Memory, 4 GB dual-rank 1.35 V, DDR3, 1333 MHz, RDIMM | 49Y1425 | |
| 24 | Memory, 8 GB dual-rank 1.35 V, DDR3, 1333 MHz, RDIMM | 49Y1415 | |
| 24 | Memory, 16 GB dual-rank 1.35 V, DDR3, 1333 MHz, RDIMM | 49Y1565 | |
| 24 | Memory, 16 GB quad-rank 1.35 V, DDR3, 1333 MHz, RDIMM | 49Y1418 | |
| 24 | Memory, 32 GB dual-rank 1.35 V, DDR3, 1333 MHz, LR-DIMM | 90Y3107 | |
| 24 | Memory, 4 GB single-rank 1.35 V, DDR3, 1600 MHz, RDIMM | 00D5026 | |
| 24 | Memory, 8 GB single-rank 1.35 V, DDR3, 1600 MHz, RDIMM | 00D5038 | |

| Index | Description | CRU part number (Tier 1) | CRU part number (Tier 2) |
|---|---|---|---|
| 24 | Memory, 8 GB dual-rank 1.35 V, DDR3, 1600 MHz, RDIMM | 00D5046 | |
| 24 | Memory, 4 GB single-rank 1.5 V, DDR3, 1600 MHz, RDIMM | 49Y1561 | |
| 24 | Memory, 4 GB dual-rank 1.5 V, DDR3, 1600 MHz, RDIMM | 90Y3180 | |
| 24 | Memory, 8 GB dual-rank 1.5 V, DDR3, 1600 MHz, RDIMM | 90Y3111 | |
| 24 | Memory, 16 GB dual-rank 1.5 V, DDR3, 1600 MHz, RDIMM | 00D4970 | |
| 24 | Memory, 16 GB dual-rank 1.5 V, DDR3, 1866 MHz, RDIMM | 46W0670 | |
| 24 | Memory, 4 GB dual-rank 1.5 V, DDR3, 1866 MHz, LR-DIMM | 00D5030 | |
| 24 | Memory, 32 GB, quad-rank 1.5 V, DDR3, 1866 MHz, LR-DIMM | 46W0763 | |
| 25 | System board<br><br>**Note:** Type 7383- ,A2x ,B2x ,C2x ,C4x ,D2x ,F2x ,G2x ,H2x ,J2x ,E1Y ,E2Y ,E3Y ,E4Y ,E5Y ,E6Y ,EAY ,EBY ,ECY ,EDY | | 00Y8246 |
| 25 | System board<br><br>**Note:** Type 7383- ,A2x ,B2x ,C2x ,C4x ,D2x ,F2x ,G2x ,H2x ,J2x ,E1Y ,E2Y ,E3Y ,E4Y ,E5Y ,E6Y ,EAY ,EBY ,ECY ,EDY | | 00Y8285 |
| 25 | System board<br><br>**Note:** Type 7383- ,A5x ,B5x ,C5x ,C7x ,C9x ,D5x ,F5x ,G5x ,G9x ,H5x ,J5x ,E7Y ,E8Y ,E9Y ,EMY ,E7Y ,E8Y ,E9Y ,EMY ,ELx ,ERx ,ESx ,ETx ,EPY ,EQY ,EWY | | 00AL016 |
| 26 | Power supply, 500 W, ac | 94Y8110 | |
| 26 | 550W High Efficiency Platinum AC Power Supply | 94Y8163 | |
| 26 | Power supply, 750 W, ac | 94Y8114 | |
| 26 | Power supply, 750 W, ac | 94Y8116 | |
| 26 | Power supply, 750 W, ac | 69Y5872 | |
| 26 | Power supply, 900 W, ac | 94Y8118 | |
| 26 | Power supply, 900 W, ac | 94Y8120 | |
| 27 | Power paddle card | | 94Y8108 |
| 27 | Power paddle card bracket | | 94Y7742 |
| 28 | ServeRAID M5100 series super cap pack | 81Y4579 | |
| 30 | Operator information panel assembly | 00KA586 | |
| 31 | Bracket, USB cable and light path diagnostics | 94Y7754 | |
| | Label, system service | 94Y7750 | |
| | Label, system service | 00MW204 | |
| | Battery, 3.0 volt | 33F8354 | |
| | Thermal grease kit | | 41Y9292 |
| | Alcohol wipes | | 59P4739 |
| | Microprocessor installation tool | | 94Y9955 |
| | Cage, 3.5-inch hard disk drive | 94Y7743 | |
| | Cage, 2.5-inch hard disk drive | 94Y7744 | |

| Index | Description | CRU part number (Tier 1) | CRU part number (Tier 2) |
|---|---|---|---|
| | PCI-X interposer card | 90Y5961 | |
| | Mouse, USB | 39Y9875 | |
| | Bracket, tape drive | 81Y7000 | |
| | Bracket, PCI adapter, 3U | 94Y7628 | |
| | Bracket, PCI adapter | 94Y7752 | |
| | Bracket, microprocessor 2 expansion board | | 00D3579 |
| | Bracket, EIA | 94Y7756 | |
| | Bracket, tape mount kit | 41Y7711 | |
| | Half high LTO Gen 5 SAS tape drive | 46X5683 | |
| | Power cut-off switch assembly | 94Y7747 | |
| | CMA kit | 68Y7213 | |
| | Slide rail kit | 68Y7226 | |
| | Rail guide assembly, 5.25-inch drive | 81Y6982 | |
| | 1m (SFF-8088 to SFF-8088) 6Gbps External Mini-SAS Cable | 00YE299 | |
| | 2m (SFF-8088 to SFF-8088) 6Gbps External Mini-SAS Cable | 00YE300 | |
| | 4m (SFF-8088 to SFF-8088) 6Gbps External Mini-SAS Cable | 00YE301 | |
| | 6m (SFF-8088 to SFF-8088) 6Gbps External Mini-SAS Cable | 00YE302 | |
| | 0.5m (SFF-8644 to SFF-8088) 6Gbps External Mini-SAS Cable | 00YE303 | |
| | 1m (SFF-8644 to SFF-8088) 7Gbps External Mini-SAS Cable | 00YE304 | |
| | 2m (SFF-8644 to SFF-8088) 8Gbps External Mini-SAS Cable | 00YE305 | |
| | 4m (SFF-8644 to SFF-8088) 9Gbps External Mini-SAS Cable | 00YE306 | |
| | 6m (SFF-8644 to SFF-8088) 10Gbps External Mini-SAS Cable | 00YE307 | |
| | Cable, mini-SAS, 820 mm (for 12 Gb RAID) | 00Y8433 | |
| | Cable, line cord | 39M5206 | |
| | Cable, SAS 820 mm | 81Y6674 | |
| | Cable, backplane connection, 2.5-inch | 81Y7514 | |
| | Cable, fan cage assembly | 81Y7533 | |
| | Cable, SATA optical power | 81Y7535 | |
| | Cable, SATA backplate assembly, 3.5-inch | 81Y7536 | |
| | Cable, backplane power conversion | 81Y7537 | |
| | Cable, 2.5-inch and 3.5-inch HDD configuration (16 HDD) | 00W2022 | |
| | Cable, 2.5-inch HDD configuration (32 HDD) | 81Y7538 | |
| | Cable, 3.5-inch HDD configuration (8 HDD) | 81Y7539 | |
| | Cable, 2.5-inch HDD configuration (8 HDD) | 00D2706 | |
| | Cable, power cut-off switch assembly | 81Y7540 | |
| | Cable, ServeRAID power module | 90Y7310 | |
| | Cable, front USB | 94Y6367 | |

| Index | Description | CRU part number (Tier 1) | CRU part number (Tier 2) |
|---|---|---|---|
| | Cable, graphical adapter power conversion | 94Y6414 | |
| | Cable, light path diagnostics | 00KA587 | |
| | Cable, SAS Y-cable | 44E8878 | |
| | Cable, SAS Y-cable | 49Y9901 | |
| | Cable, flash power module cable, 925 mm (for ServeRAID M5200 series flash) | 46C9793 | |
| | Cable, power converter cable for K20 | 00AL108 | |
| | Cartridge, Ultrium LTO Universal Cleaning Cartridge | 35L2086 | |
| | Hypervisor, blank USB memory key for VMWare ESXi downloads | 42D0545 | |
| | Supercap pack | 47C8696 | |
| | Keyboard | 94Y6050 | |
| | Keyboard | 94Y6108 | |
| | Keyboard | 00MW364 | |
| | Woody Bracket | 00MW309 | |
| | Alcohol wipe | | 00MP352 |

Consumable parts (parts that are purchased separately) are not covered by the Lenovo Statement of Limited Warranty. The following consumable parts are available for purchase from the Lenovo retail store.

| Index | Description | Part number |
|---|---|---|
| | Keylock assembly, random keyed | 00YD725 |
| | Keylock alike assembly | 00YD726 |

## Structural parts

Structural parts are not covered by the Lenovo Statement of Limited Warranty. You can place an order on the structural parts from the Lenovo retail store.

The following structural parts are available for purchase from the retail store.

*Table 33. Structural parts, Type 7383*

| Index | Description | Part number |
|---|---|---|
| 1 | Bezel, tower | 94Y7729 |
| | Tower Bezel Asm | 00MW214 |
| | Bezel, rack | 94Y7753 |
| | Rack Bezel Asm | 00MW205 |
| | Filler, 2.5-inch hot-swap hard disk drive bay | 44T2248 |
| | Filler, 3.5-inch hot-swap hard disk drive bay | 69Y5364 |
| | Filler, 3.5-inch simple-swap hard disk drive bay | 69Y5368 |
| | Filler, 5.25-inch drive bay | 94Y7732 |
| 6 | Filler, 2.5-inch cage filler | 94Y7748 |

*Table 33. Structural parts, Type 7383 (continued)*

| Index | Description | Part number |
|---|---|---|
| 7 | Filler, 3.5-inch cage filler | 94Y7749 |
| | Filler, rack kit | 94Y7755 |
| | Filler, power supply bay | 94Y7610 |
| 14 | Filler, fan | 00D4373 |
| 17 | ServeRAID M5100 series battery kit | 81Y4491 |
| 19 | Air baffle | 94Y7741 |
| 18 | Cover, left-side | 94Y7736 |
| | Cover, right-side | 94Y7737 |
| | Cover, top | 94Y7738 |
| | Foot kit, rear | 13N2985 |
| | Foot kit, stabilizer, front | 26K7345 |
| | Keylock assembly, universal | 94Y7730 |
| | Keylock assembly | 94Y7731 |
| 29 | Remote RAID battery tray | 94Y7609 |

To order a structural part, complete the following steps:

**Note:** Changes are made periodically to the Lenovo website. The actual procedure might vary slightly from what is described in this document.

1. Go to http://www.ibm.com.
2. From the **Products** menu, select **Upgrades, accessories & parts**.
3. Click **Obtain maintenance parts**; then, follow the instructions to order the part from the retail store.

If you need help with your order, call the toll-free number that is listed on the retail parts page, or contact your local Lenovo representative for assistance.

## Power cords

For your safety, a power cord with a grounded attachment plug is provided to use with this product. To avoid electrical shock, always use the power cord and plug with a properly grounded outlet.

Lenovo power cords used in the United States and Canada are listed by Underwriter's Laboratories (UL) and certified by the Canadian Standards Association (CSA).

For units intended to be operated at 115 volts: Use a UL-listed and CSA-certified cord set consisting of a minimum 18 AWG, Type SVT or SJT, three-conductor cord, a maximum of 15 feet in length and a parallel blade, grounding-type attachment plug rated 15 amperes, 125 volts.

For units intended to be operated at 230 volts (U.S. use): Use a UL-listed and CSA-certified cord set consisting of a minimum 18 AWG, Type SVT or SJT, three-conductor cord, a maximum of 15 feet in length and a tandem blade, grounding-type attachment plug rated 15 amperes, 250 volts.

For units intended to be operated at 230 volts (outside the U.S.): Use a cord set with a grounding-type attachment plug. The cord set should have the appropriate safety approvals for the country in which the equipment will be installed.

Power cords for a specific country or region are usually available only in that country or region.

| Power cord part number | Used in these countries and regions |
|---|---|
| 39M5206 | China |
| 39M5102 | Australia, Fiji, Kiribati, Nauru, New Zealand, Papua New Guinea |
| 39M5123 | Afghanistan, Albania, Algeria, Andorra, Angola, Armenia, Austria, Azerbaijan, Belarus, Belgium, Benin, Bosnia and Herzegovina, Bulgaria, Burkina Faso, Burundi, Cambodia, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Congo (Democratic Republic of), Congo (Republic of), Cote D'Ivoire (Ivory Coast), Croatia (Republic of), Czech Republic, Dahomey, Djibouti, Egypt, Equatorial Guinea, Eritrea, Estonia, Ethiopia, Finland, France, French Guyana, French Polynesia, Germany, Greece, Guadeloupe, Guinea, Guinea Bissau, Hungary, Iceland, Indonesia, Iran, Kazakhstan, Kyrgyzstan, Laos (People's Democratic Republic of), Latvia, Lebanon, Lithuania, Luxembourg, Macedonia (former Yugoslav Republic of), Madagascar, Mali, Martinique, Mauritania, Mauritius, Mayotte, Moldova (Republic of), Monaco, Mongolia, Morocco, Mozambique, Netherlands, New Caledonia, Niger, Norway, Poland, Portugal, Reunion, Romania, Russian Federation, Rwanda, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia, Slovakia, Slovenia (Republic of), Somalia, Spain, Suriname, Sweden, Syrian Arab Republic, Tajikistan, Tahiti, Togo, Tunisia, Turkey, Turkmenistan, Ukraine, Upper Volta, Uzbekistan, Vanuatu, Vietnam, Wallis and Futuna, Yugoslavia (Federal Republic of), Zaire |
| 39M5130<br>39M5179 | Denmark |
| 39M5144 | Bangladesh, Lesotho, Macao, Maldives, Namibia, Nepal, Pakistan, Samoa, South Africa, Sri Lanka, Swaziland, Uganda |
| 39M5151 | Abu Dhabi, Bahrain, Botswana, Brunei Darussalam, Channel Islands, China (Hong Kong S.A.R.), Cyprus, Dominica, Gambia, Ghana, Grenada, Iraq, Ireland, Jordan, Kenya, Kuwait, Liberia, Malawi, Malaysia, Malta, Myanmar (Burma), Nigeria, Oman, Polynesia, Qatar, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Seychelles, Sierra Leone, Singapore, Sudan, Tanzania (United Republic of), Trinidad and Tobago, United Arab Emirates (Dubai), United Kingdom, Yemen, Zambia, Zimbabwe |
| 39M5158 | Liechtenstein, Switzerland |
| 39M5165 | Chile, Italy, Libyan Arab Jamahiriya |
| 39M5172 | Israel |
| 39M5095 | 220 - 240 V<br><br>Antigua and Barbuda, Aruba, Bahamas, Barbados, Belize, Bermuda, Bolivia, Caicos Islands, Canada, Cayman Islands, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guam, Guatemala, Haiti, Honduras, Jamaica, Mexico, Micronesia (Federal States of), Netherlands Antilles, Nicaragua, Panama, Peru, Philippines, Saudi Arabia, Thailand, Taiwan, United States of America, Venezuela |
| 39M5081 | 110 - 120 V<br><br>Antigua and Barbuda, Aruba, Bahamas, Barbados, Belize, Bermuda, Bolivia, Caicos Islands, Canada, Cayman Islands, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guam, Guatemala, Haiti, Honduras, Jamaica, Mexico, Micronesia (Federal States of), Netherlands Antilles, Nicaragua, Panama, Peru, Philippines, Saudi Arabia, Thailand, Taiwan, United States of America, Venezuela |
| 39M5076<br>39M5512 | United States of America |
| 39M5463 | Taiwan |
| 39M5087 | Thailand |

| Power cord part number | Used in these countries and regions |
|---|---|
| 39M5219 | Korea (Democratic People's Republic of), Korea (Republic of) |
| 39M5199 | Japan |
| 39M5068 | Argentina, Paraguay, Uruguay |
| 39M5226 | India |
| 39M5240<br>39M5241 | Brazil |
| 39M5375<br>39M5378<br>39M5509 | Canada, Germany, United States of America |

# Chapter 6. Removing and replacing components

Use this information to remove and replace the server components.

The types of replaceable components are:

- **Structural parts:** Purchase and replacement of structural parts (components, such as chassis assembly, top cover, and bezel) is your responsibility. If Lenovo acquires or installs a structural component at your request, you will be charged for the service.
- **Tier 1 customer replaceable unit (CRU):** Replacement of Tier 1 CRUs is your responsibility. If Lenovo installs a Tier 1 CRU at your request, you will be charged for the installation.
- **Tier 2 customer replaceable unit:** You may install a Tier 2 CRU yourself or request Lenovo to install it, at no additional charge, under the type of warranty service that is designated for your server.

See Chapter 5 “Parts listing, Lenovo System x3500 M4 Type 7383” on page 167 to determine whether a component is a structural part, Tier 1 CRU, or Tier 2 CRU.

For information about the terms of the warranty, see the *Warranty Information* document that comes with the server.

For more information about getting service and assistance, see Appendix D “Getting help and technical assistance” on page 1147.

## Returning a device or component

If you are instructed to return a device or component, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Opening the bezel media door

Use this information to unlock the left-side cover to open or remove the bezel.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

To open the media door, complete the following steps.

Step 1. Check the status of the media door icon. If the icon on the side of the bezel is in the unlocked position, open the bezel media door directly.

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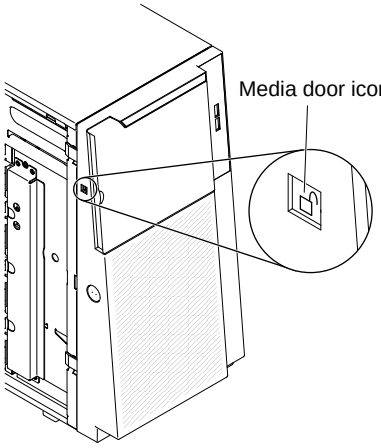



*Figure 92. Check status of media door icon*

Step 2. Unlock the left-side cover.

**Note:** You must unlock the left-side cover to open or remove the bezel. When you lock the left-side cover, it locks both the cover and the bezel.

Step 3. Open the bezel by pressing the button on the left edge of the bezel, and rotate the left side of the bezel away from the server.

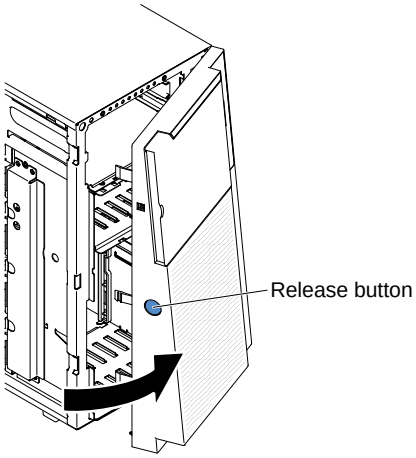



*Figure 93. Open the bezel*

Step 4. From inside of the top section of the bezel door, slide the blue tab up to unlock the bezel media door; then, grasp the depressed area on the media door and pull the door open.

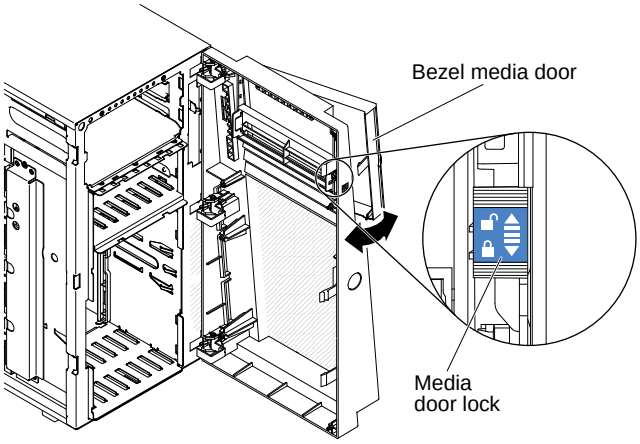



*Figure 94. Slide blue tab to unlock bezel media door*

Step 5. When the media door is unlocked, the icon on the side of the bezel will be in the unlocked position.

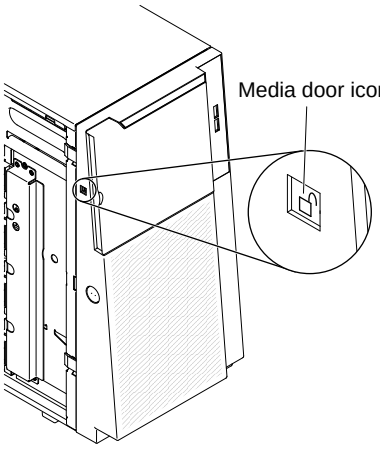



*Figure 95. Media door icon in unlocked position*

## Closing the bezel media door

Use this information to close the bezel media door.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To close the media door, complete the following steps.

Step 1. Swing the bezel media door closed and push it into the bezel to close it.

Step 2. From inside of the top section of the bezel door, slide the blue tab down to lock the bezel media door.

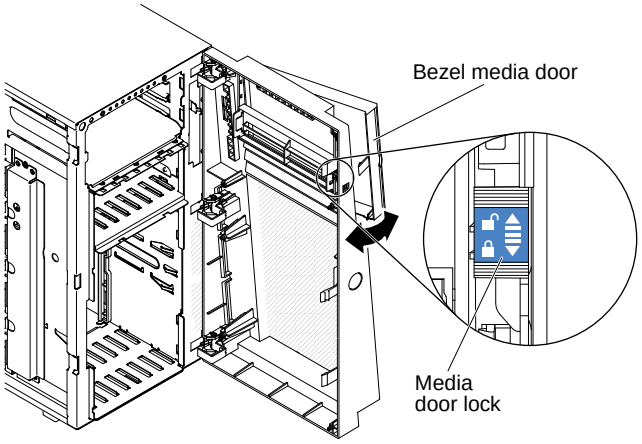



*Figure 96. Lock the bezel media door*

Step 3. Close the bezel.

# Removing and replacing server components

This section provides information for removing and replacing server components in the server.

# Removing and replacing structural parts

This section provides information for removing and replacing structural parts in the server.

Replacement of structural parts is your responsibility. If Lenovo installs a structural part at your request, you will be charged for the installation.

The illustrations in this document might differ slightly from your hardware.

## Removing the left-side cover

Use this information to unlock and remove the left-side cover by using the key that comes with the server.

**Important:** Before you install optional hardware devices, make sure that the server is working correctly. Start the server and make sure that the operating system starts, if an operating system is installed, or that a 19990305 error code is displayed, indicating that an operating system was not found but the server is otherwise working correctly. If the server is not working correctly, see “Running DSA Preboot diagnostic programs” on page 145 for information about how to run diagnostics.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

**Attention:** The server automatically powers off when the left-side cover is removed.

To remove the left-side cover, complete the following steps.

Step 1. Unlock the left-side cover, using the key that comes with the server.

Step 2. Pull the cover-release latch down while you rotate the top edge of the cover away from the server; then, lift the cover off the server.

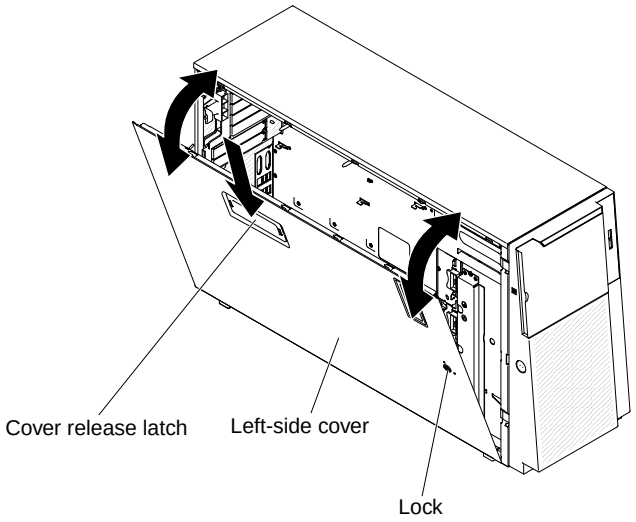



*Figure 97. Left-side cover removal*

## Installing the left-side cover

Use this information to install the left-side cover.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install the left-side server cover, complete the following steps.

Step 1. Set the bottom edge of the left-side cover on the bottom ledge of the server.

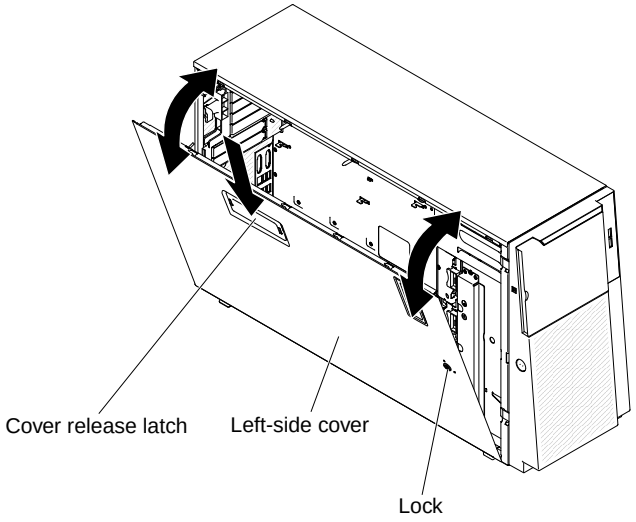



*Figure 98. Set the bottom edge of the left-side cover*

Step 2. Rotate the top edge of the cover toward the server and press inward on the cover until it clicks into place.

Step 3. Lock the cover, using the key that comes with the server.

## Removing the bezel

Use this information to remove the bezel.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove the bezel, complete the following steps.

Step 1. Unlock the left-side cover, using the key that comes with the server.

**Note:** You must unlock the left-side cover to open or remove the bezel. When you lock the left-side cover, it locks both the cover and the bezel.

Step 2. Open the bezel by pressing the button on the left edge of the bezel, and rotate the left side of the bezel away from the server.

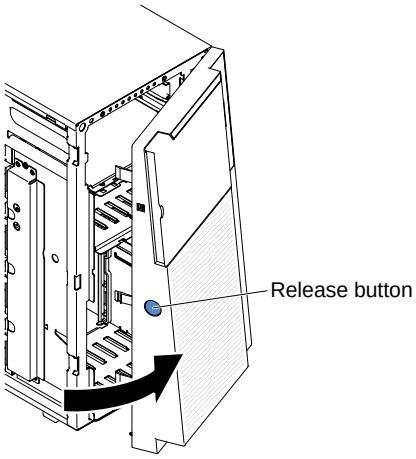



*Figure 99. Open the bezel*

Step 3. Pull the hinge assemblies upward and release the bezel out of the chassis.

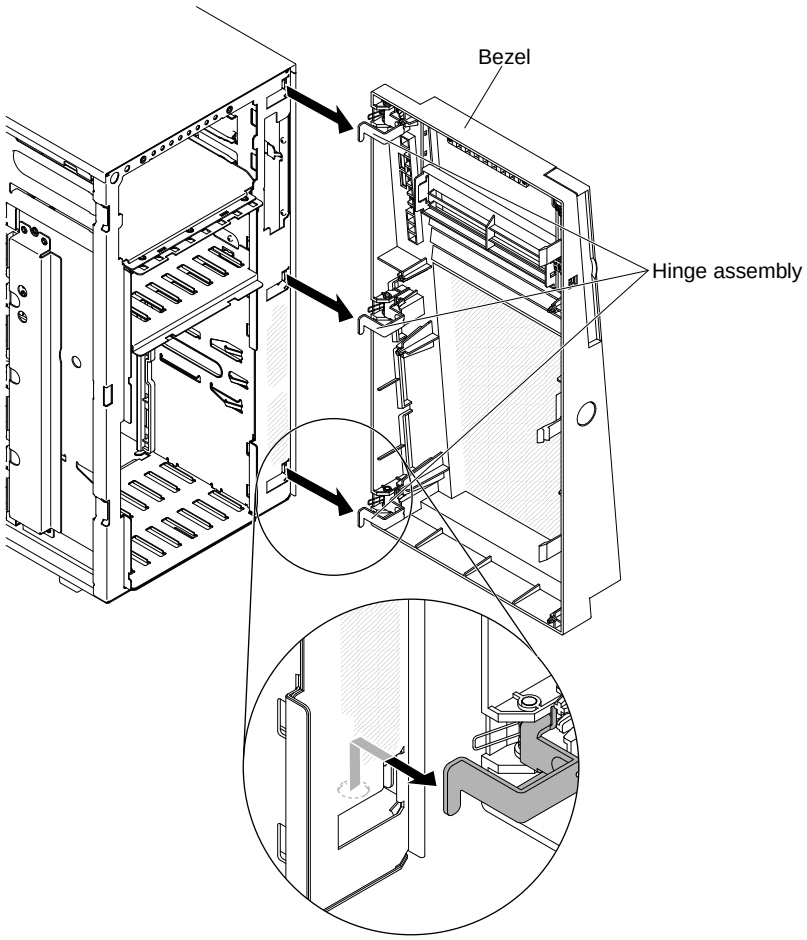



*Figure 100. Release the bezel*

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing the bezel

Use this information to install the bezel.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install the bezel, complete the following steps.

Step 1. Unlock the left-side cover, using the key that comes with the server.

**Note:** You must unlock the left-side cover to open or remove the bezel. When you lock the left-side cover, it locks both the cover and the bezel.

Step 2. Align the hinge assemblies with the hinge holes on the chassis.

Step 3. Push the hinges into the holes downward on the chassis until they snap into place.

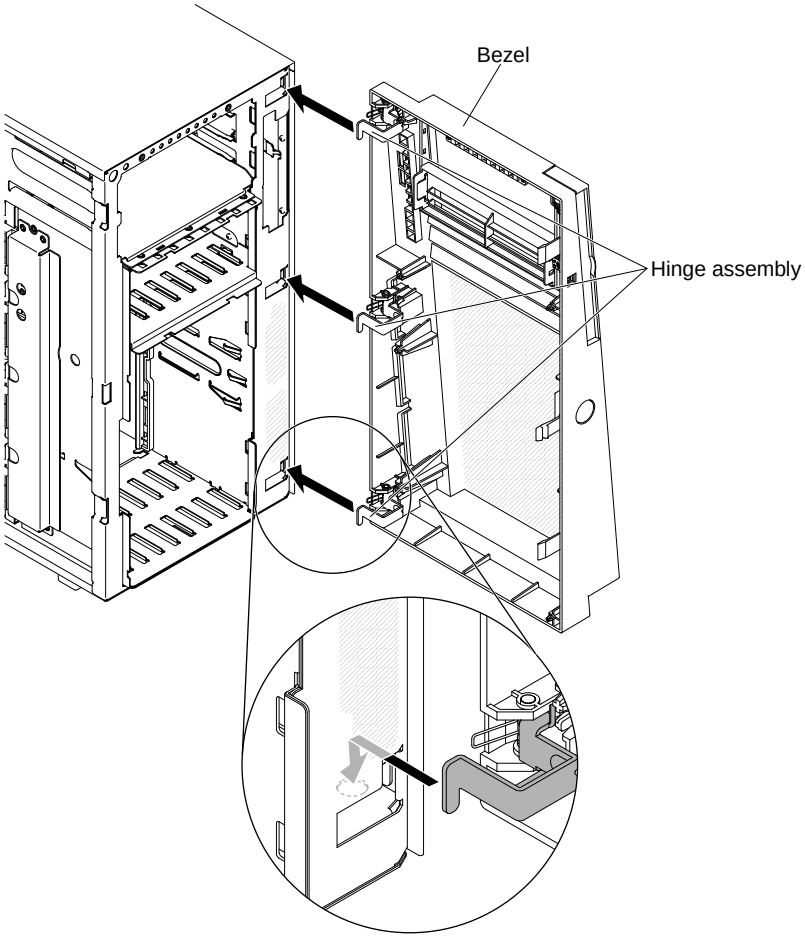



*Figure 101. Bezel installation*

Step 4. Close the bezel.

Step 5. Lock the left-side cover.

## Turning the stabilizing feet

Use this information to turn the stabilizing feet.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To rotate the front feet, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Carefully position the server on a flat surface, with the feet hanging over the edge of the flat surface to ease removal.

Step 3. Press in on the clips that hold the feet in place; then, pry the feet away from the server. In some cases, you might need a screwdriver to press in on the clips.

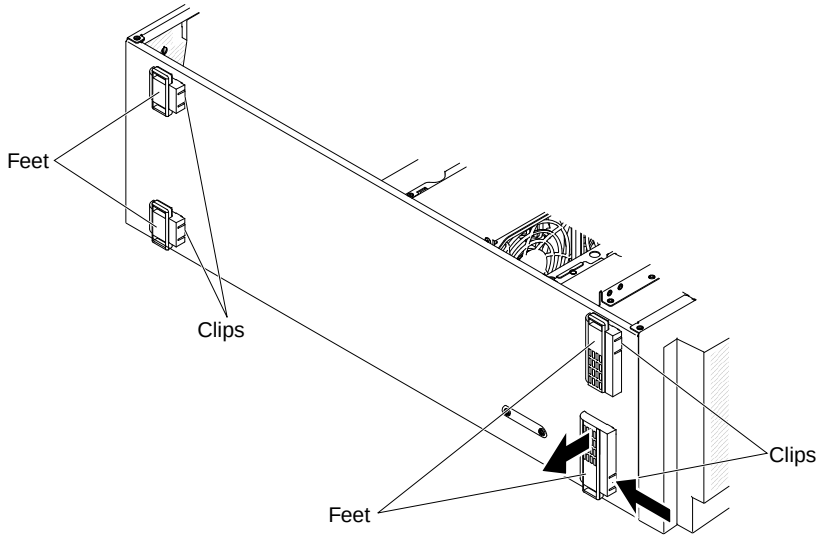



*Figure 102. Hold feet in place*

Step 4. Reinstall the feet in the opposite location, with the tab on the feet extending beyond the edge of the server.

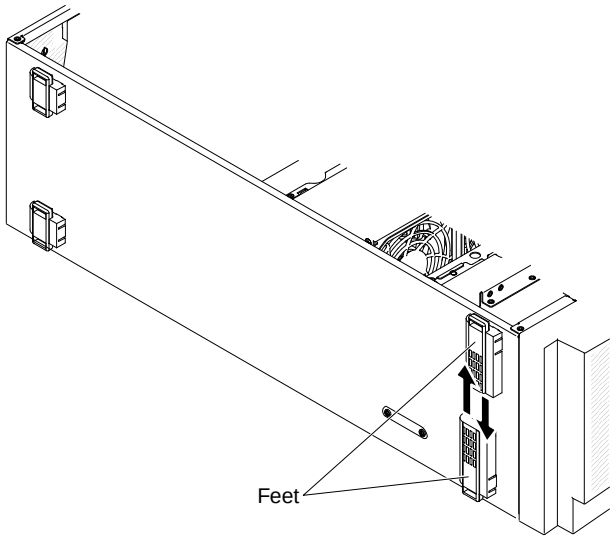



*Figure 103. Reinstall the feet*

## Removing the air baffle

Use this information to remove the air baffle from the server.

**Note:** When you install the second microprocessor, you must also install fan 2 and the air baffle that come with the second microprocessor upgrade kit.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove the air baffle, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the air baffle from the server and set it aside.

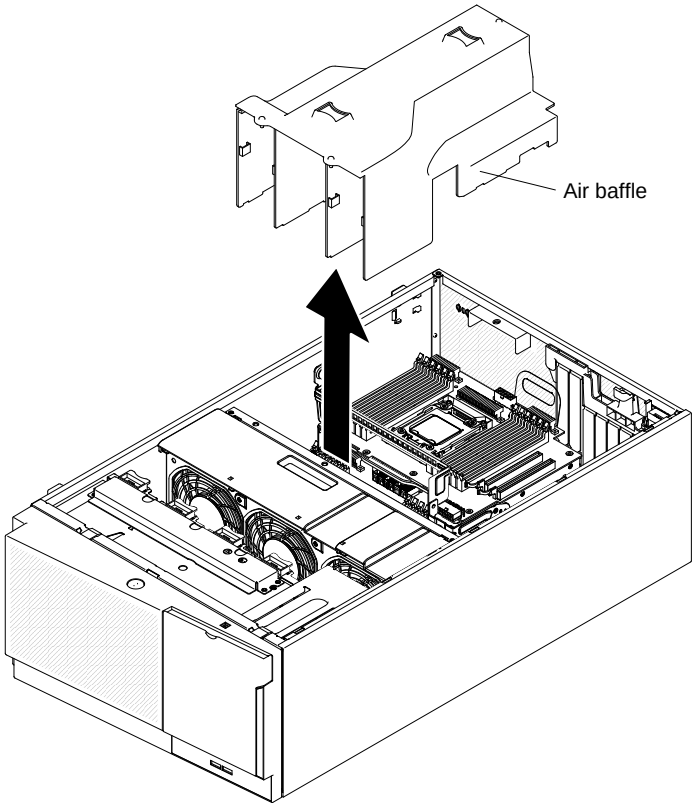



*Figure 104. Air baffle removal*

**Attention:** For proper cooling and airflow, replace the air baffle before you turn on the server. Operating the server with the air baffle removed might damage server components when two microprocessors installed.

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing the air baffle

Use this information to install the air baffle.

**Note:** When you install the second microprocessor, you must also install fan 2 and the air baffle that come with the second microprocessor upgrade kit.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install the air baffle (two microprocessors installed), complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Align the positioning pins on the ends of the air baffle with the locating holes in the server chassis and fan cage assembly.

Step 4. Slide the air baffle down into the server until the positioning pins fit into the locating holes; then, press down on the air baffle until the pinch tab clicks into place.

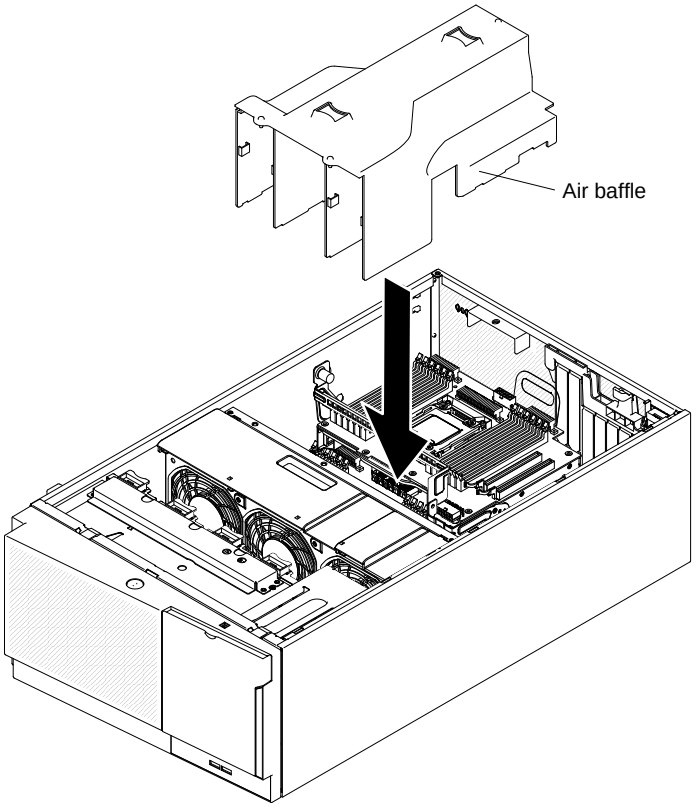



*Figure 105. Air baffle installation*

Step 5. Install and lock the left-side cover (see “Installing the left-side cover” on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

## Removing a RAID adapter battery or flash power module holder

Use this information to remove a RAID adapter battery or flash power module holder.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove a RAID adapter battery or flash power module holder, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the remotely installed RAID adapter battery or flash power module (see “Removing a remotely installed RAID adapter battery or flash power module” on page 220).

Step 4. Pull the blue touch point slightly to release the battery or flash power module holder out of the guide pin.

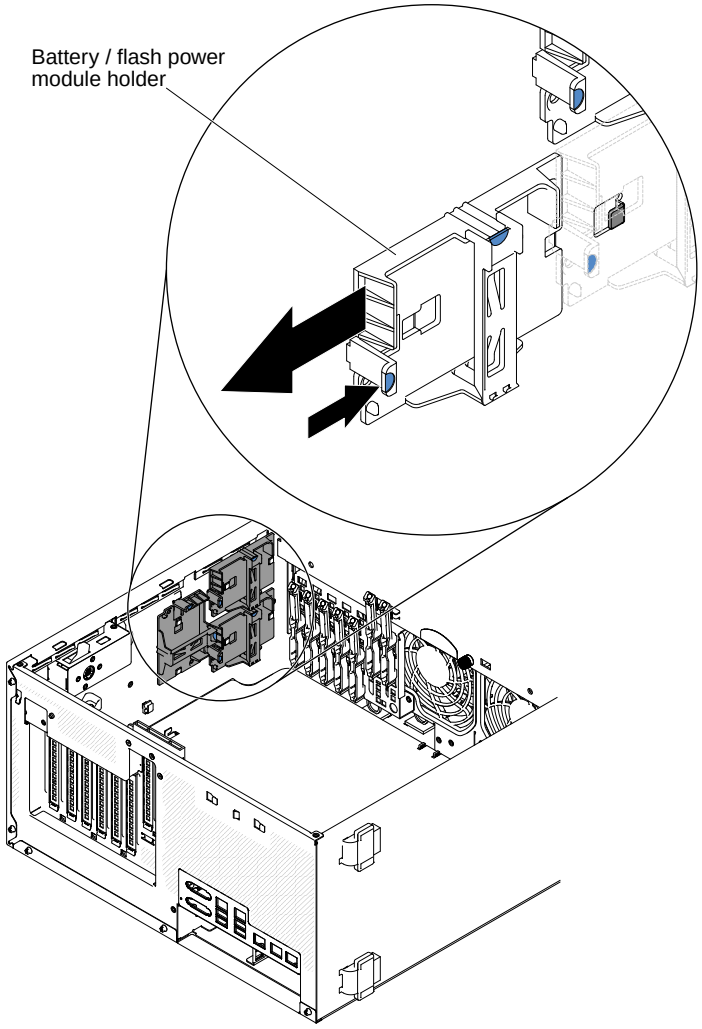



*Figure 106. Battery or flash power module holder removal*

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing a RAID adapter battery or flash power module holder

Use this information to install a RAID adapter battery or flash power module holder.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install a RAID adapter battery or flash power module holder, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Align the battery or flash power module holder with the guide pin to install the battery or flash power module holder.

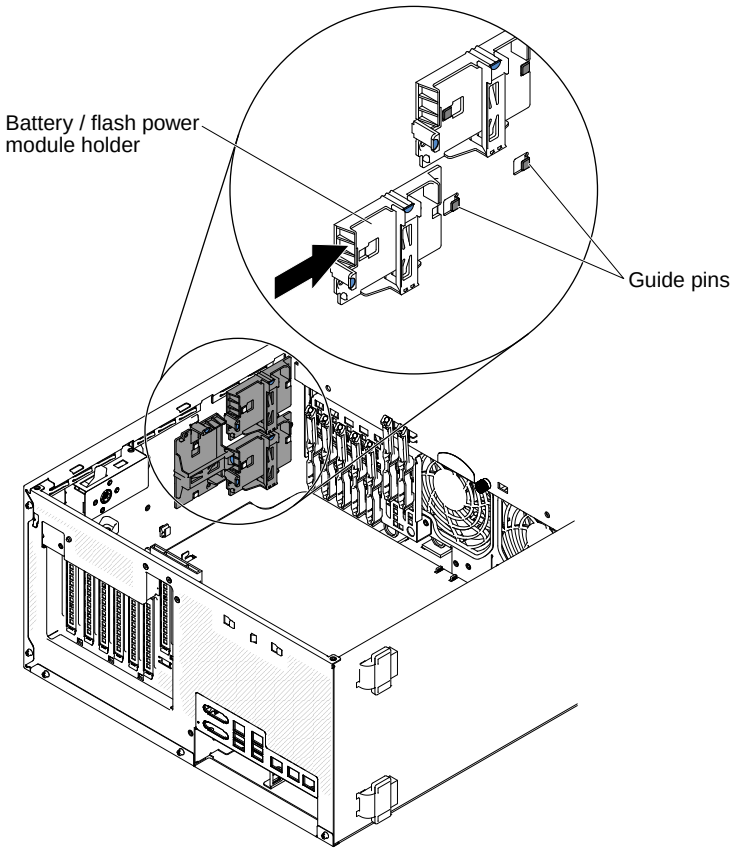



*Figure 107. Battery or flash power module holder installation*

Step 4. Make sure that the battery or flash power module holder is secured firmly.

Step 5. Install and lock the left-side cover (see “Installing the left-side cover” on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

## Removing and replacing Tier 1 CRUs

Replacement of Tier 1 CRUs is your responsibility. If Lenovo installs a Tier 1 CRU at your request, you will be charged for the installation.

The illustrations in this document might differ slightly from your hardware.

## Removing and installing drives

Use this information to remove and install drives.

Depending on the server model, the server might come with a SATA attached DVD-ROM drive in bay 1.

The following illustrations show the location of the drive bays in the server. Your hardware might differ, depending on the model.

**Note:** If the server is configured for RAID operation using a ServeRAID adapter, you might have to reconfigure your disk arrays after you install drives. See the ServeRAID adapter documentation for additional information about RAID operation and complete instructions for using the ServeRAID adapter.

The following illustrations show the location of the drive bays in the 2.5-inch hot-swap SAS or hot-swap SATA hard disk drive server models.

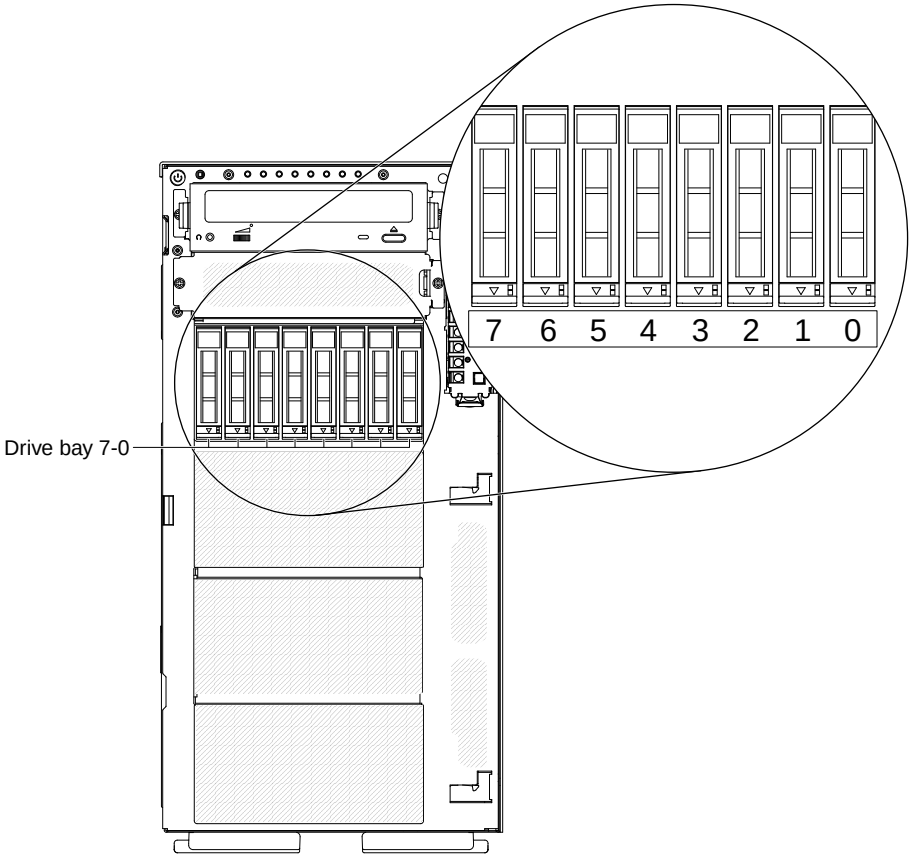



*Figure 108. Server with eight 2.5-inch hard disk drives*

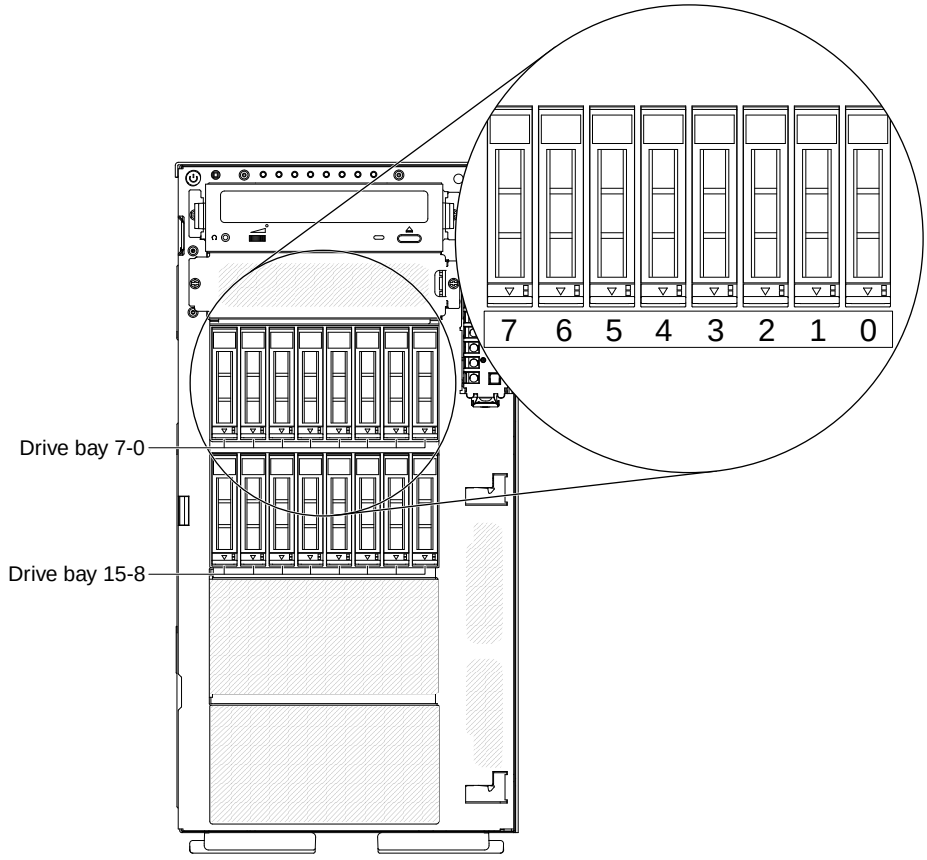



*Figure 109. Server with sixteen 2.5-inch hard disk drives*

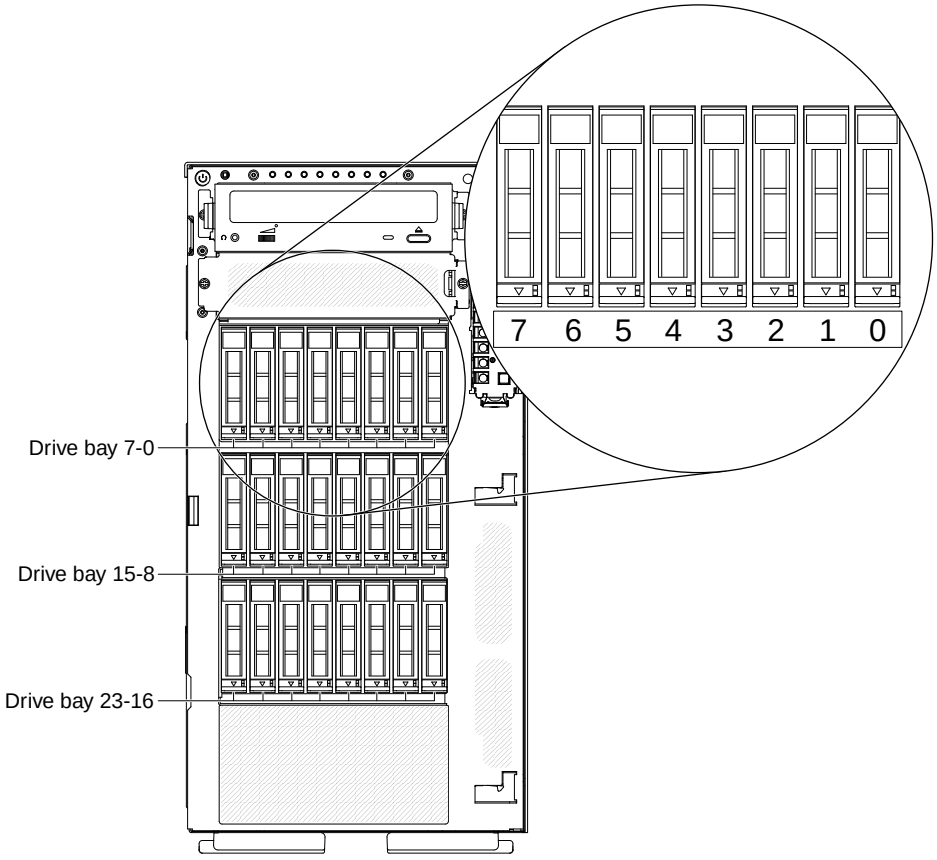



*Figure 110. Server with twenty-four 2.5-inch hard disk drives*

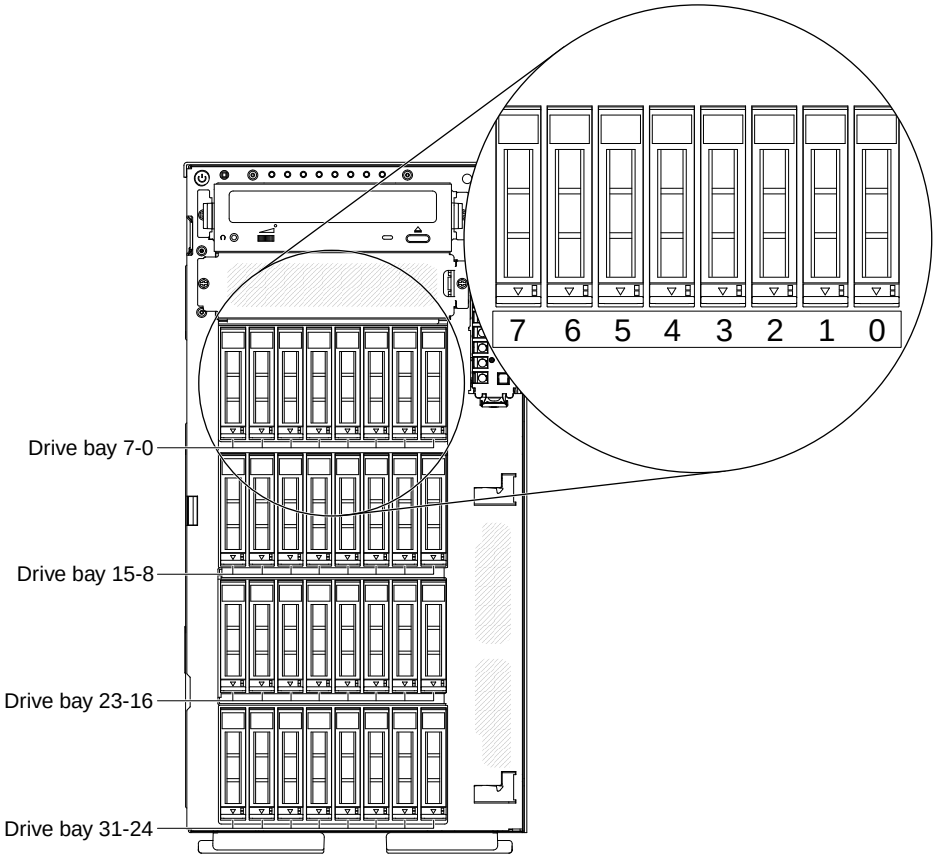



*Figure 111. Server with thirty-two 2.5-inch hard disk drives*

The following illustrations show the location of the drive bays in the 3.5-inch hot-swap SAS or hot-swap SATA hard disk drive server models.

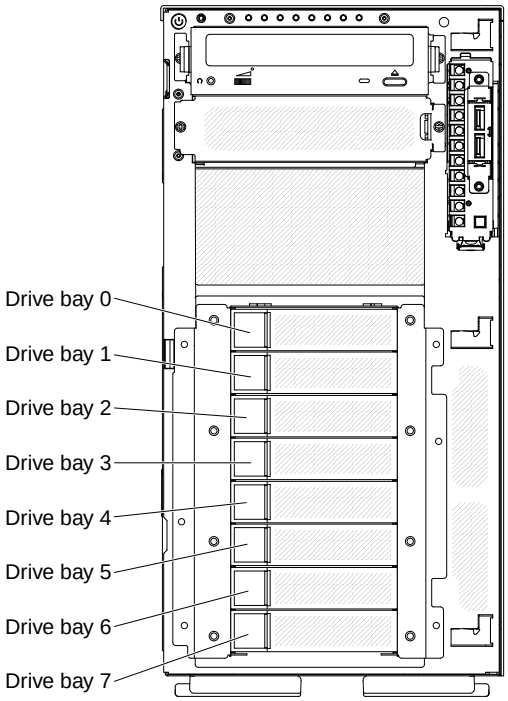



*Figure 112. Server with eight 3.5-inch hard disk drives*

The following illustrations show the location of the drive bays in the 2.5-inch and 3.5-inch hot-swap SAS or hot-swap SATA hard disk drive server models.

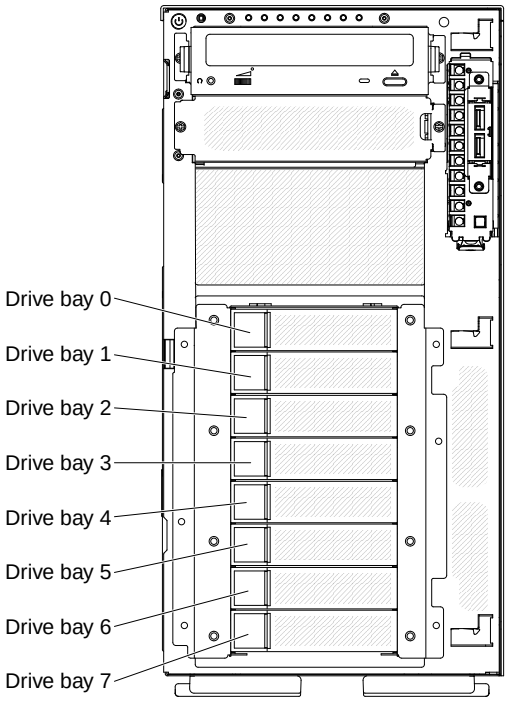



*Figure 113. Server with eight 2.5-inch hard disk drives and eight 3.5-inch hard disk drives*

The following notes describe the types of drives that the server supports and other information that you must consider when installing a drive:

- Make sure that you have all the cables and other equipment that is specified in the documentation that comes with the drive.
- Check the instructions that come with the drive to see whether you have to set any switches or jumpers on the drive. If you are installing a SAS or SATA device, be sure to set the SAS or SATA ID for that device.
- Optional external tape drives and DVD-ROM drives are examples of removable-media drives. You can install removable-media drives only in bays 1 and 2 on models with eight 3.5-inch, eight, sixteen, twenty-four, and thirty-two 2.5-inch hard disk drives.
- The electromagnetic interference (EMI) integrity and cooling of the server are protected by having all bays and PCI slots covered or occupied. When you install a drive or PCI adapter, save the EMC shield and filler panel from the bay or the PCI adapter slot cover in the event that you later remove the drive or adapter.
- For a complete list of supported options for the server, see http://www.lenovo.com/ serverproven/.

**Removing a 2.5-inch hot-swap hard disk drive**

Use this information to remove a 2.5-inch hot-swap hard disk drive.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

**Attention:** Static electricity that is released to internal server components when the server is powered-on might cause the server to halt, which might result in the loss of data. To avoid this potential problem, always use an electrostatic-discharge wrist strap or other grounding system when you work inside the server with the power on.

To remove a 2.5-inch hot-swap hard disk drive, complete the following steps.

Step 1. Unlock the left-side cover.

**Note:** You must unlock the left-side cover to open or remove the bezel. When you lock the left-side cover, it locks both the cover and the bezel.

Step 2. Open the bezel (see “Opening the bezel media door” on page 181).

Step 3. Press down on the release latch to open the drive handle; then, pull the drive out of the drive bay.

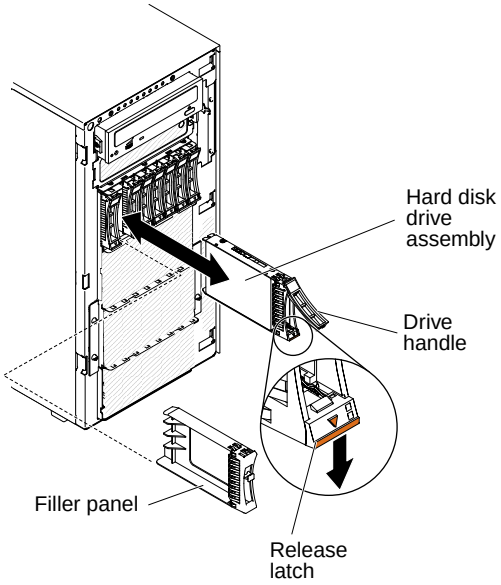



*Figure 114. Hot-swap hard disk drive removal*

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

**Installing a 2.5-inch hot-swap hard disk drive**

Use this information to install a 2.5-inch hot-swap hard disk drive.

The following notes describe the types of hard disk drives that the server supports and other information that you must consider when you install a hard disk drive:

- Depending on the model, the server supports up to eight or up to thirty-two 2.5-inch SAS/SATA hot-swap hard disk drives in the hot-swap bays.

  **Note:** When using ServeRAID adapter M1015 to support more than sixteen 2.5-inch hard disk drives, the maximum number of RAID supported drives is 16. All the other drives will remain JBOD (the drives are presented to the operating system without a RAID configuration).
- For a list of supported optional devices for the server, see http://www.lenovo.com/ serverproven/.
- Inspect the drive and drive bay for signs of damage.
- Make sure that the drive is correctly installed in the drive bay.
- See the documentation for the ServeRAID adapter for instructions for installing a hard disk drive.
- All hot-swap drives in the server must have the same throughput speed rating; using drives with different speed ratings might cause all drives to operate at the speed of the slowest drive.
- You do not have to turn off the server to install hot-swap drives in the hot-swap drive bays. However, you must turn off the server when you perform any steps that involve installing or removing cables.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

**Attention:** Static electricity that is released to internal server components when the server is powered-on might cause the server to halt, which might result in the loss of data. To avoid this potential problem, always use an electrostatic-discharge wrist strap or other grounding system when you work inside the server with the power on.

To install a 2.5-inch hot-swap hard disk drive, complete the following steps.

Step 1. Unlock the left-side cover.

**Note:** You must unlock the left-side cover to open or remove the bezel. When you lock the left-side cover, it locks both the cover and the bezel.

Step 2. Open the bezel (see “Opening the bezel media door” on page 181).

Step 3. Remove the filler panel, if one is present.

Step 4. Touch the static-protective package that contains the disk drive to any unpainted metal surface on the server; then, remove the disk drive from the package.

Step 5. Make sure that the tray handle is open; then, install the hard disk drive into the hot-swap bay.

Step 6. Rotate the drive handle down until the drive is seated in the hot-swap bay and the release latch clicks into place.

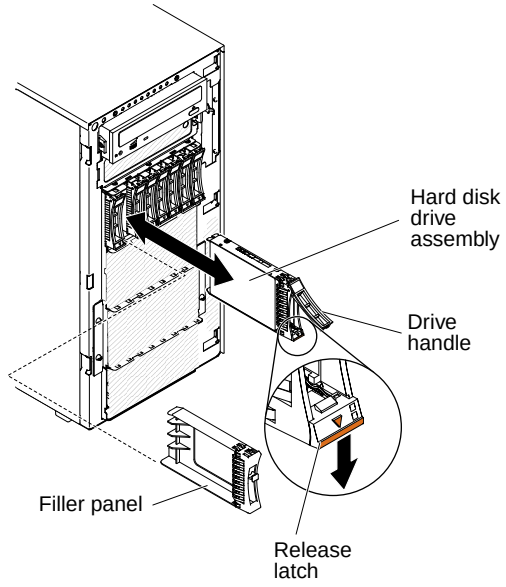



*Figure 115. Hot-swap hard disk drive installation*

**Notes:**

1. After you install the hard disk drive, check the disk drive status LEDs to verify that the hard disk drive is operating correctly. If the yellow hard disk drive status LED is lit continuously, that drive is faulty and must be replaced. If the green hard disk drive activity LED is flashing, the drive is being accessed.
2. If the server is configured for RAID operation through an optional ServeRAID adapter, you might have to reconfigure your disk arrays after you install hard disk drives. See the ServeRAID documentation on the *Lenovo ServeRAID Support* CD for additional information about RAID operation and complete instructions for using ServeRAID manager.

Step 7. Close the bezel (see “Closing the bezel media door” on page 183).

Step 8. Lock the left-side cover.

### Removing a 3.5-inch hot-swap hard disk drive

Use this information to remove a 3.5-inch hot-swap SAS/SATA hard disk drive.

**Attention:** To maintain proper system cooling, do not operate the server for more than 10 minutes without either a drive or a filler panel installed in each drive bay.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

To remove a 3.5-inch hot-swap SAS/SATA hard disk drive, complete the following steps.

Step 1. Unlock the left-side cover.

**Note:** You must unlock the left-side cover to open or remove the bezel. When you lock the left-side cover, it locks both the cover and the bezel.

Step 2. Open the bezel (see “Opening the bezel media door” on page 181).

Step 3. Rotate the drive tray handle of the drive assembly to the open position.

Step 4. Grasp the handle of the drive and pull the drive out of the bay.

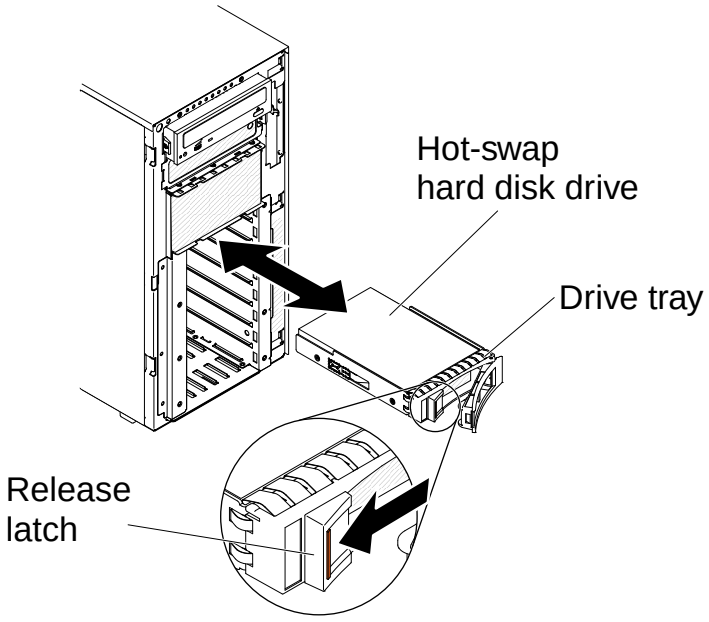



*Figure 116. Pull out the drive*

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

**Installing a 3.5-inch hot-swap hard disk drive**

Use this information to install a 3.5-inch hot-swap SAS/SATA hard disk drive.

Before installing a 3.5-inch hot-swap hard disk drive, read the following information:

- Inspect the drive tray for signs of damage.
- To maintain proper system cooling, do not operate the server for more than 10 minutes without either a drive or a filler panel installed in each drive bay.
- You do not have to turn off the server to install hot-swap drives in the hot-swap drive bays.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

To install a 3.5-inch hot-swap SAS/SATA hard disk drive, complete the following steps.

Step 1. Unlock the left-side cover.

**Note:** You must unlock the left-side cover to open or remove the bezel. When you lock the left-side cover, it locks both the cover and the bezel.

Step 2. Open the bezel (see “Opening the bezel media door” on page 181).

Step 3. Remove the filler panel, if one is present.

Step 4. Touch the static-protective package that contains the disk drive to any unpainted metal surface on the server; then, remove the disk drive from the package and place it on a static-protective surface.

Step 5. Make sure that the drive tray handle is in the open position.

Step 6. Align the drive assembly with the guide rails in the bay; then, carefully slide the drive assembly into the drive bay until the drive snaps into place.

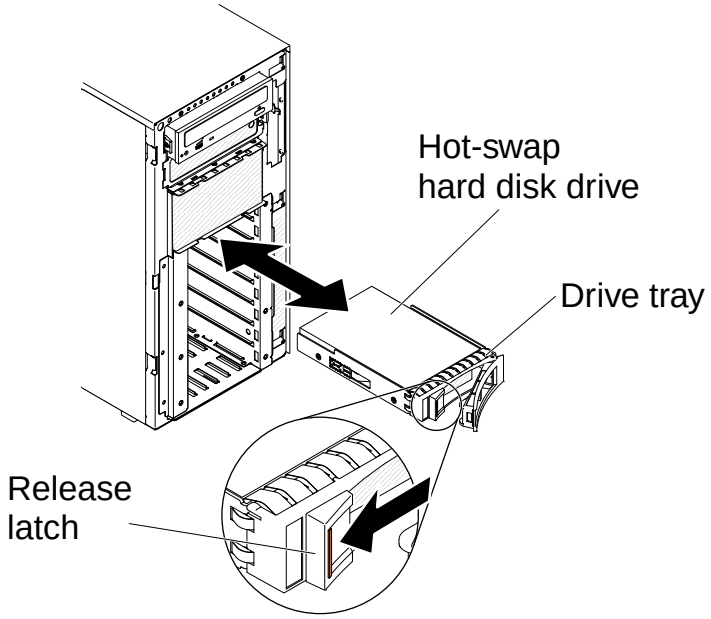



*Figure 117. Hot-swap hard disk drive installation*

Step 7. Rotate the drive tray handle to the closed position.

Step 8. Check the hard disk drive status indicator to make sure that the hard disk drive is operating correctly. After you replace a failed hard disk drive, the green activity LED flashes as the disk spins up. The yellow LED turns off after approximately 1 minute. If the new drive starts to rebuild, the yellow LED flashes slowly, and the green activity LED remains lit during the rebuild process. If the yellow LED remains lit, see the “Hard disk drive problems” on page 149 for more information.

**Note:** You might have to reconfigure the disk arrays after you install hard disk drives. See the RAID documentation on the Lenovo website at http://www.lenovo.com/support for information about RAID adapters.

Step 9. Close the bezel (see “Closing the bezel media door” on page 183).

Step 10. Lock the left-side cover.

### Removing a 3.5-inch simple-swap hard disk drive

Use this information to remove a 3.5-inch simple-swap hard disk drive.

**Attention:** To maintain proper system cooling, do not operate the server for more than 10 minutes without either a drive or a filler panel installed in each drive bay.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove a 3.5-inch simple-swap hard disk drive, complete the following steps.

Step 1. Unlock the left-side cover.

**Note:** You must unlock the left-side cover to open or remove the bezel. When you lock the left-side cover, it locks both the cover and the bezel.

Step 2. Open the bezel (see “Opening the bezel media door” on page 181).

Step 3. Slide the blue release latch to the right with one finger (to release the drive) while using another finger to grasp the black drive handle and pull the hard disk drive out of the drive bay.

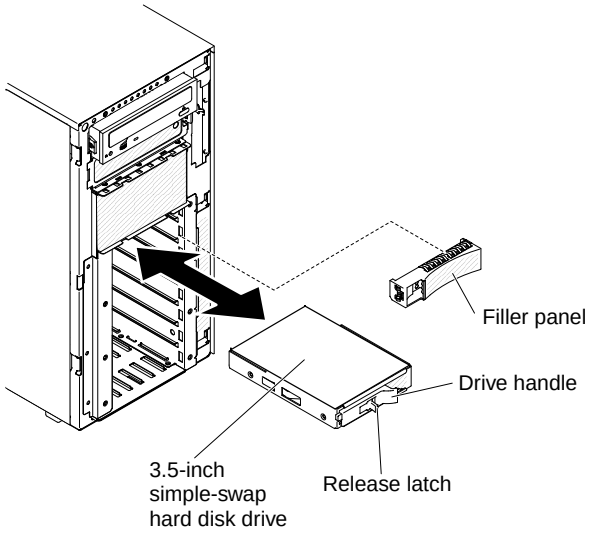



*Figure 118. Simple-swap hard disk drive removal*

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

### Installing a 3.5-inch simple-swap hard disk drive

Use this information to install a 3.5-inch simple-swap hard disk drive.

Before installing a 3.5-inch simple-swap hard disk drive, read the following information:

- Inspect the drive tray for signs of damage.
- To maintain proper system cooling, do not operate the server for more than 10 minutes without either a drive or a filler panel installed in each drive bay.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install a 3.5-inch simple-swap hard disk drive, complete the following steps.

Step 1. Unlock the left-side cover.

**Note:** You must unlock the left-side cover to open or remove the bezel. When you lock the left-side cover, it locks both the cover and the bezel.

Step 2. Open the bezel (see “Opening the bezel media door” on page 181).

Step 3. Remove the filler panel, if one is present.

Step 4. Touch the static-protective package that contains the disk drive to any unpainted metal surface on the server; then, remove the disk drive from the package and place it on a static-protective surface.

Step 5. Grasp the black drive handle and slide the blue release latch to the right and align the drive assembly with the guide rails in the bay.

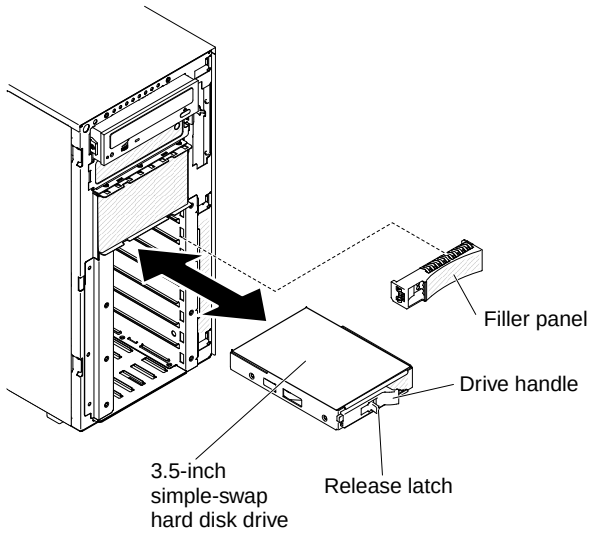



*Figure 119. Simple-swap hard disk drive installation*

Step 6. Gently push the drive into the bay until the drive stops.

Step 7. Close the bezel (see “Closing the bezel media door” on page 183).

Step 8. Lock the left-side cover.

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

**Removing a DVD drive**

Use this information to remove a DVD drive.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove the DVD drive, complete the following steps.

Step 1. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 2. Open the bezel (see “Opening the bezel media door” on page 181).

Step 3. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 4. Disconnect the DVD drive cables from the back of the DVD drive.

Step 5. Grasp the blue tabs on each side of the DVD drive and press them inward while you pull the drive out of the server.

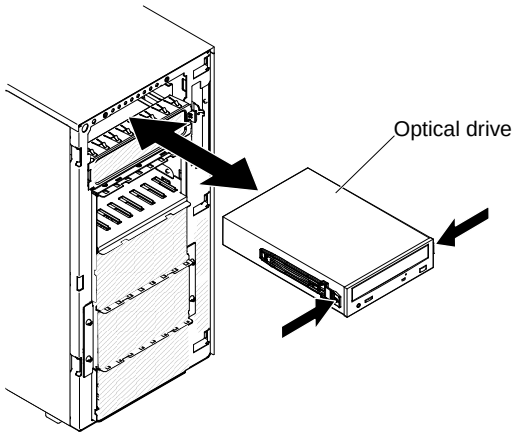



*Figure 120. Pull the DVD drive out*

Step 6. Remove the blue rails from the DVD drive and save them for future use.

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

**Installing a DVD drive**

Use this information to install a DVD drive.

If you are replacing a drive, make sure that:

- You have all the cables and other equipment that are specified in the documentation that comes with the new drive.
- You have checked the instructions that come with the new drive to determine whether you must set any switches or jumpers in the drive.
- You have removed the blue optical drive rails from the side of the old drive and have them available for installation on the new drive.

**Note:** If you are installing a drive that contains a laser, observe the following safety precautions.

**Statement 3**

**CAUTION:**
**When laser products (such as CD-ROMs, DVD drives, fiber optic devices, or transmitters) are installed, note the following:**

- **Do not remove the covers. Removing the covers of the laser product could result in exposure to hazardous laser radiation. There are no serviceable parts inside the device.**

- **Use of controls or adjustments or performance of procedures other than those specified herein might result in hazardous radiation exposure.**

**DANGER**

**Some laser products contain an embedded Class 3A or Class 3B laser diode.**

**Note the following. Laser radiation when open. Do not stare into the beam, do not view directly with optical instruments, and avoid direct exposure to the beam.**

Class 1 Laser Product
Laser Klasse 1
Laser Klass 1
Luokan 1 Laserlaite
Appareil À Laser de Classe 1

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install the DVD drive, complete the following steps.

Step 1. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 2. Open the bezel (see “Opening the bezel media door” on page 181).

Step 3. Remove the air baffle if installed (see “Removing the air baffle” on page 189).

Step 4. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 5. Touch the static-protective package that contains the DVD drive to any unpainted metal surface on the server; then, remove the DVD drive from the package.

Step 6. Install the blue rails on the DVD drive, using the holes nearest the center of the drive.

Step 7. Follow the instructions that come with the drive to set jumpers or switches, if there is any.

**Note:** You might find it easier to install the new drive from the front and then attach the cables.

Step 8. Align the rails on the DVD drive with the guides in the drive bay; then, slide the DVD drive into the drive bay until the rails click into place.

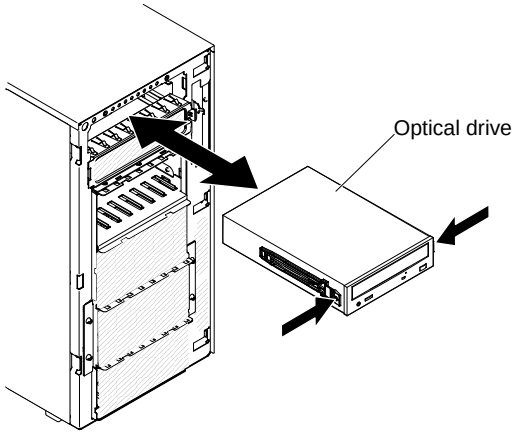



*Figure 121. Slide the DVD drive into the drive bay*

Step 9. Connect power and signal cables to the drive and the connectors on the system board (see "Internal cable routing and connectors" on page 312 for more information).

Step 10. Install the fan cage assembly (see "Installing the fan cage assembly" on page 274).

Step 11. Install the air baffle (see "Installing the air baffle" on page 190).

Step 12. Close the bezel (see "Closing the bezel media door" on page 183).

Step 13. Install and lock the left-side cover (see "Installing the left-side cover" on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

**Removing an optional tape drive**

Use this information to remove an optional tape drive.

Read the safety information in "Safety" on page v and "Installation guidelines" on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove an optional full-height tape drive, complete the following steps.

Step 1. Unlock and remove the left-side cover (see "Removing the left-side cover" on page 184).

Step 2. Open the bezel (see "Opening the bezel media door" on page 181).

Step 3. Remove the air baffle if installed (see "Removing the air baffle" on page 189).

Step 4. Remove the fan cage assembly (see "Removing the fan cage assembly" on page 272).

Step 5. Disconnect the power and signal cables from the back of the tape drive.

Step 6. Grasp the blue tabs on each side of the tape drive and press them inward while you pull the drive out of the server.

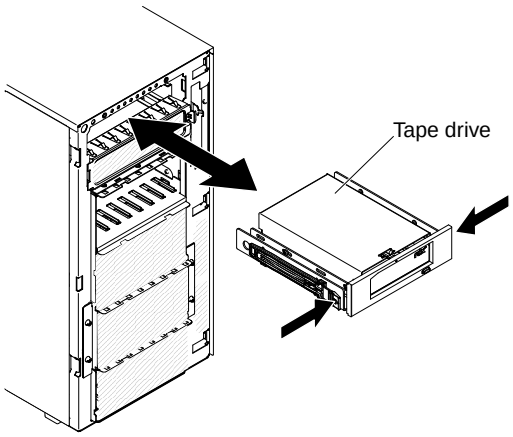



*Figure 122. Slide the tape drive out of the drive bay*

Step 7. Note the location of the blue rails on the tape drive; then, remove the blue rails and save them for future use.

Step 8. Gently pull the tape drive out of the server.

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

**Installing an optional tape drive**

Use this information to install an optional tape drive.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install an optional full-height tape drive, complete the following steps.

Step 1. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 2. Open the bezel (see “Opening the bezel media door” on page 181).

Step 3. Remove the air baffle if installed (see “Removing the air baffle” on page 189).

Step 4. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 5. Remove the EMC shields from the drive bay, if installed.

Step 6. Touch the static-protective package that contains the tape drive to any unpainted metal surface on the server; then, remove the tape drive from the package.

Step 7. Install the blue rails on the tape drive.

Step 8. Follow the instructions that come with the drive to set jumpers or switches, if there is any.

**Note:** You might find it easier to install the new drive from the front and then attach the cables.

Step 9. Align the rails on the tape drive with the guides in the drive bay; then, slide the tape drive into the drive bay until the rails click into place.

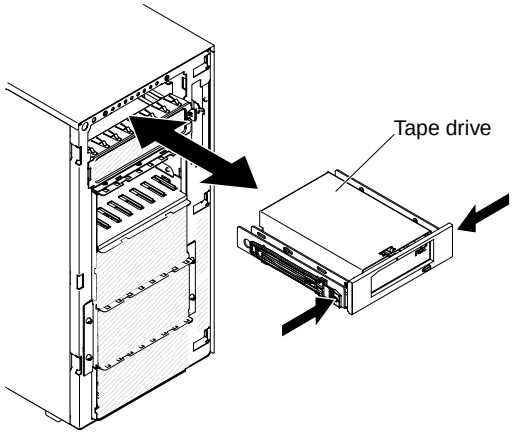



*Figure 123. Slide the tape drive into the drive bay*

Step 10. Connect the power and signal cables to the drive and the connectors on the system board (see "Internal cable routing and connectors" on page 312 for more information).

Step 11. Install the fan cage assembly (see "Installing the fan cage assembly" on page 274).

Step 12. Install the air baffle (see "Installing the air baffle" on page 190).

Step 13. Close the bezel (see "Closing the bezel media door" on page 183).

Step 14. Install and lock the left-side cover (see "Installing the left-side cover" on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

## Removing a SAS/SATA 8 Pac HDD option

Use this information to remove a SAS/SATA 8 Pac HDD option.

Read the safety information in "Safety" on page v and "Installation guidelines" on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove a SAS/SATA 8 Pac HDD option, complete the following steps.

Step 1. Remove the bezel (see "Removing the bezel" on page 186).

Step 2. Remove the left side cover (see "Removing the left-side cover" on page 184).

Step 3. Pull the hard disk drives and filler panels out of the server slightly to disengage them from the hard disk drive backplane.

Step 4. Remove the 2.5-inch hot-swap SAS/SATA hard disk drive backplane (see "Removing the 2.5-inch hard disk drive backplane" on page 245).

## Installing a SAS/SATA 8 Pac HDD option

Use this information to install a SAS/SATA 8 Pac HDD option.

You can install an Lenovo System x3500 M4 Hot-swap SAS/SATA 8 Pac HDD option to add eight additional 2.5-inch hot-swap hard disk drives in the server. See http://www.lenovo.com/ serverproven/ for a list of supported optional devices. To order a SAS/SATA 8 Pac HDD option, contact your Lenovo sales representative or Lenovo reseller.

**Note:** The 8 pac HDD option including structural parts and Tier 1 parts.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install a SAS/SATA 8 Pac HDD option, complete the following steps.

Step 1. Remove the bezel (see “Removing the bezel” on page 186).

Step 2. Remove the left side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the fillers if necessary.

Step 4. Install the 2.5-inch hard disk drive cage if necessary.

a. Align the 2.5-inch hard disk drive cage with the chassis to the area highlighted in grey as follows and install it in the server.

**Note:** If you are upgrading the hard disk drive bays from 16 to 24 and the 2.5-inch hard disk drive cage is already installed, keep the new 2.5-inch hard disk drive cage comes with the option in a safe place for potential future use.

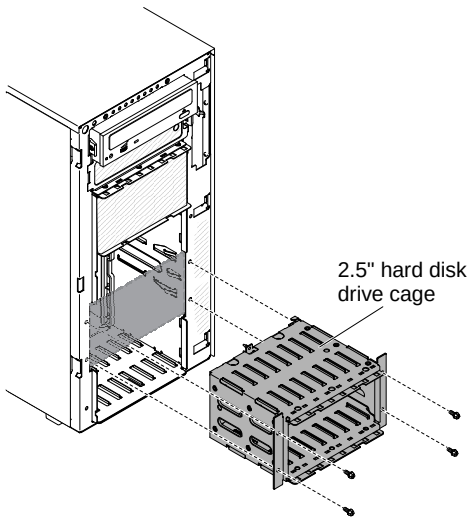



*Figure 124. Align the 2.5-inch HD cage with chassis*

**Note:** The cage for the hard disk drive is installed only when you need to install more than eight hard disk drives. The cage is installed in the bays where the hard disk drive 16-23 will be installed.

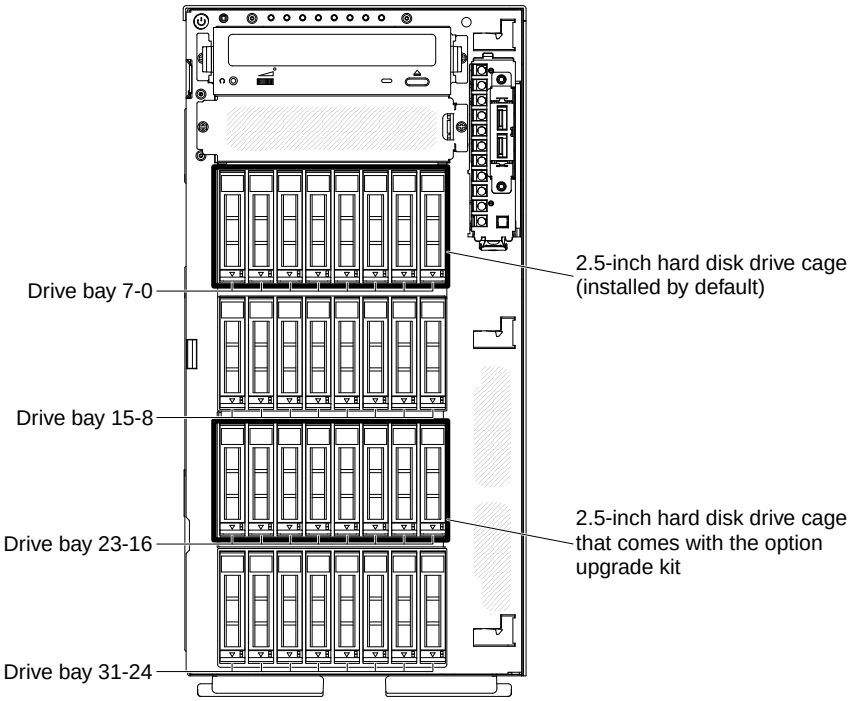



*Figure 125. Install cage in drive bay 16-23*

b. Fasten the four screws.

Step 5. Install the 2.5-inch hot-swap hard disk drive backplane (see “Installing the 2.5-inch hard disk drive backplane” on page 246).

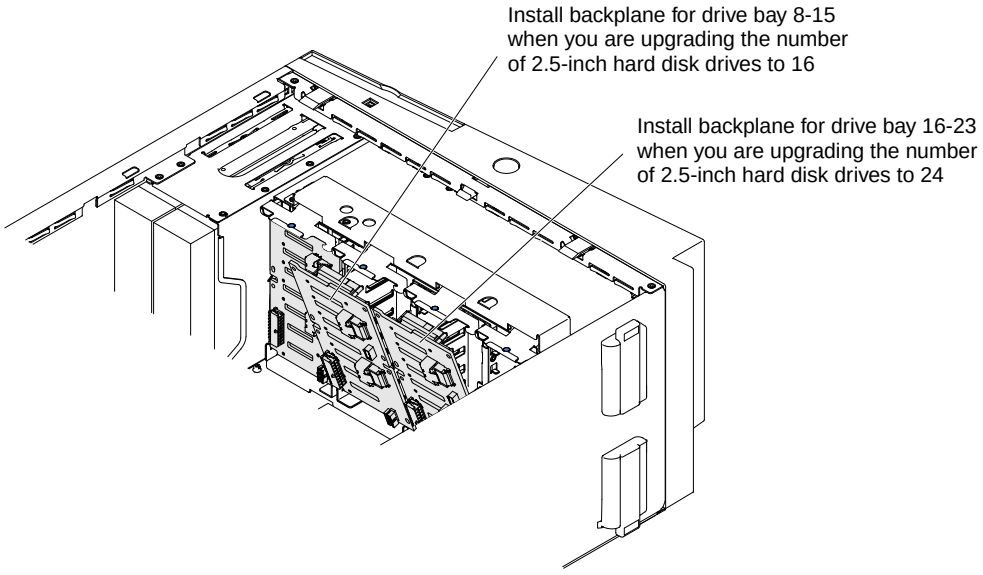



*Figure 126. Install backplane for bay 8-15 and 16-23*

Step 6. Install the EMC shields that come with the option.

Step 7. Install the 2.5-inch hard disk drives (see “Installing a 2.5-inch hot-swap hard disk drive” on page 200).

Step 8. Install the drive bay filler panels that come with the option into empty drive bays.

Step 9. Connect the backplane configuration cable, power cable, signal cable, and the configuration cable (see “Internal cable routing and connectors” on page 312).

**Note:** You may need to install the two screws on the backplane configuration cable.

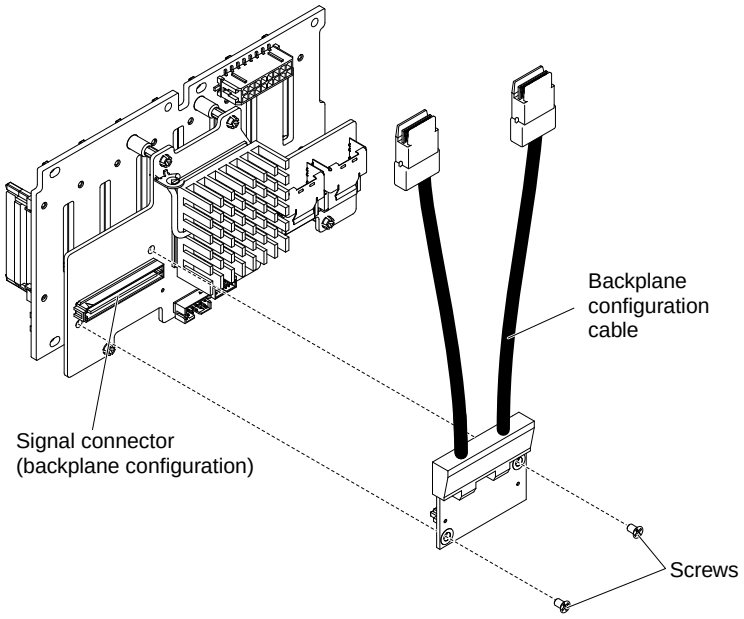



*Figure 127. Put screws on the backplane*

Step 10. Install the bezel (see “Installing the bezel” on page 187).

Step 11. Install the left-side cover (see “Installing the left-side cover” on page 185).

Step 12. Reconnect the power cords and any cables that you removed.

Step 13. Slide the server into the rack.

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

## Removing an adapter

Use this information to remove an adapter.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove an adapter, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Disconnect the cables from the adapter.

Step 4. Rotate the adapter-retention brackets to the open position.

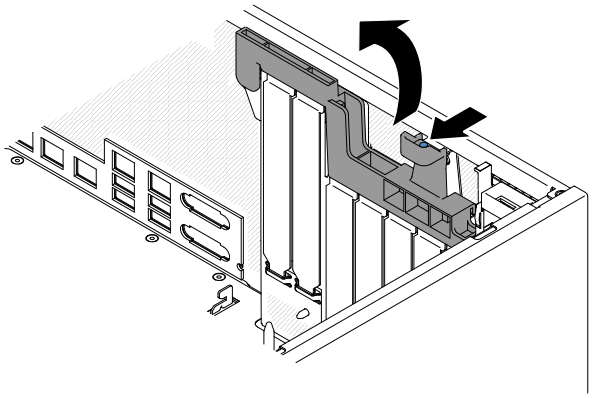


*Figure 128. Rotate the adapter-retention brackets to the open position*

Step 5. Pull the adapter out of the adapter connector; then, lift the adapter out of the server.

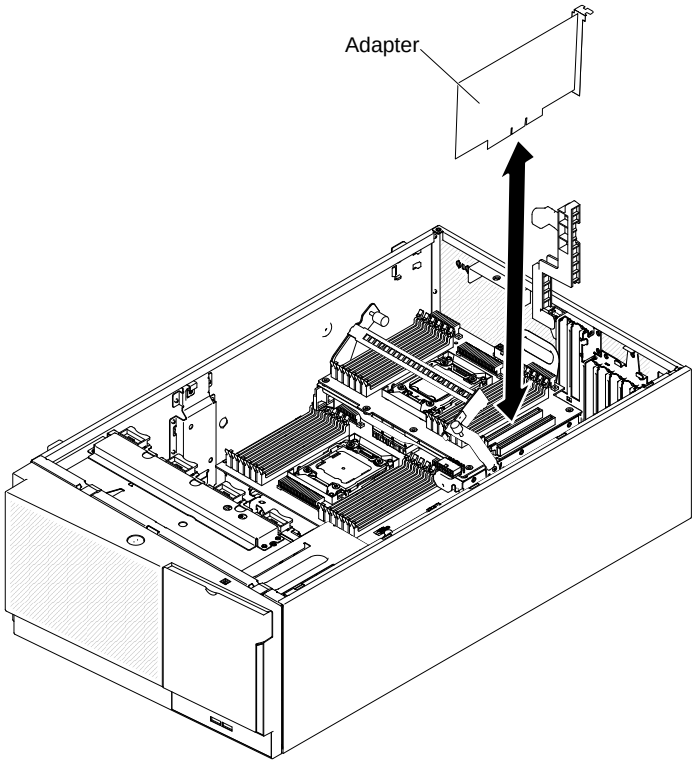



*Figure 129. Pull the adapter out of the adapter connector*

**Note:** If you have installed the optional ServeRAID adapter memory module, remove it and keep it in future use (see “Removing an optional ServeRAID adapter memory module” on page 223).

Step 6. Install the PCI slot filler.

Step 7. Rotate the adapter-retention brackets to the close position.

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

**Removing an adapter on the PCI-X bracket**

Use this information to remove an adapter on the PCI-X bracket.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove an adapter on the PCI-X bracket, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Disconnect the cables from the adapter.

Step 4. Rotate the adapter-retention brackets on the PCI-X bracket to the open position.

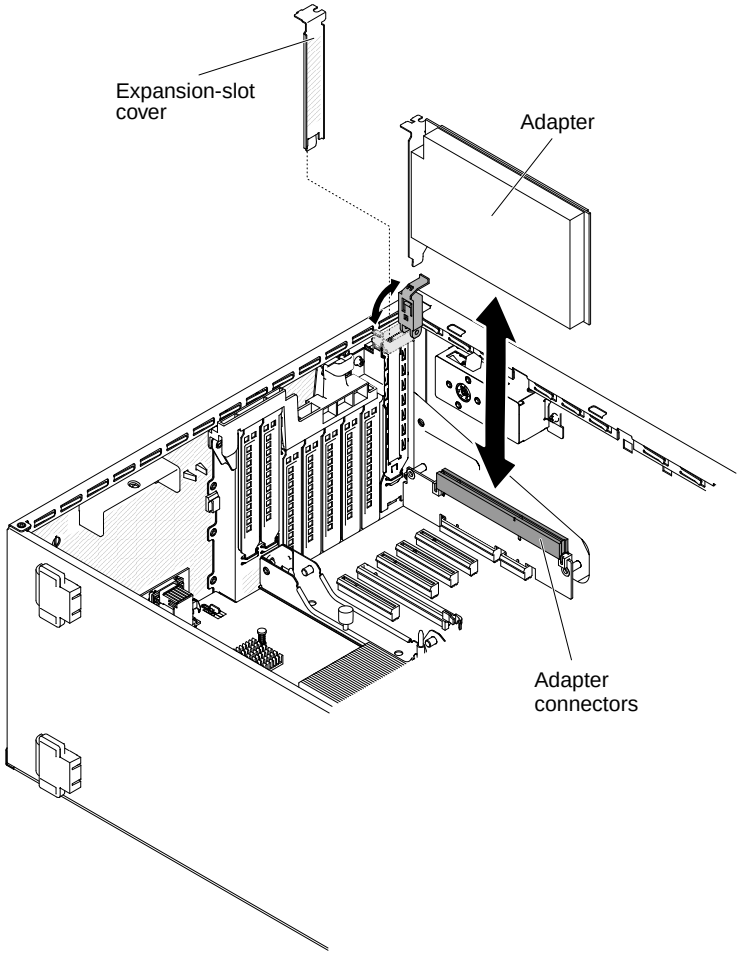



*Figure 130. Rotate the adapter-retention brackets on the PCI-X bracket to the open position*

Step 5. Pull the adapter out of the adapter connector; then, lift the adapter out of the server.

**Note:** If you have installed the optional ServeRAID adapter memory module, remove it and keep it in future use (see “Removing an optional ServeRAID adapter memory module” on page 223).

Step 6. Install the PCI slot filler.

Step 7. Rotate the adapter-retention brackets to the close position.

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing an adapter

Use this information to install an adapter.

The following notes describe the types of adapters that the server supports and other information that you must consider when you install an adapter:

- To confirm that the server supports the adapter that you are installing, see http://www.lenovo.com/serverproven/.
- Locate the documentation that comes with the adapter and follow those instructions in addition to the instructions in this section.
- Do not set the maximum digital video adapter resolution above 1600 x 1200 at 75 Hz for an LCD monitor. This is the highest resolution that is supported for any add-on video adapter that you install in the server.
- Avoid touching the components and gold-edge connectors on the adapter.
- The server uses a rotational interrupt technique to configure PCI adapters so that you can install PCI adapters that do not support sharing of PCI interrupts.
- The following table lists the option part numbers and CRU part numbers for the network adapters.

*Table 34. Network adapters*

| Network Adapters | | |
|---|---|---|
| **Description** | **Option part number** | **CRU part number** |
| NetXtreme II 1000 express Ethernet adapter | 39Y6066 | 39Y6070 |
| NetXtreme II 1000 express dual-port Ethernet adapter | 42C1780 | 49Y7947 |
| QLogic 10Gb CNA | 42C1800 | 42C1802 |
| QLogic 8Gb FC dual-port HBA | 42D0510 | 42D0516 |
| NetXtreme II 1000 express quad-port Ethernet adapter | 49Y4220 | 49Y7949 |
| Intel Ethernet dual-port server adapter I340-T2 | 49Y4230 | 49Y4232 |
| Intel Ethernet quad-port server adapter I340-T4 | 49Y4240 | 49Y4242 |
| Broadcom NetXtreme II dual-port 10GBaseT adapter | 49Y7910 | 49Y7912 |
| Intel X520-DA2 dual-port 10GbE SFP adapter | 49Y7960 | 49Y7962 |
| Intel X540-T2 dual-port 10GBaseT adapter | 49Y7970 | 49Y7972 |
| Broadcom NetXtreme I quad-port GbE adapter | 90Y9352 | 90Y9355 |
| Broadcom NetXtreme I dual-port GbE adapter | 90Y9370 | 90Y9373 |
| Emulex 10 GbE virtual fabric adapter III | 95Y3762 | 9573766 |
| Emulex 10 GbE virtual fabric adapter III lite | 95Y3768 | 95Y3766 |

**Attention:** Static electricity that is released to internal server components when the server is powered-on might cause the server to stop, which might result in the loss of data. To avoid this potential problem, always use an electrostatic-discharge wrist strap or other grounding system when working inside the server with the power on.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install an adapter, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. See the documentation that comes with the adapter for any cabling instructions and information about jumper or switch settings. (It might be easier for you to route cables before you install the adapter.)

Step 4. Touch the static-protective package that contains the adapter to any unpainted metal surface on the server; then, remove the adapter from the package.

Step 5. Determine the PCI slot into which you will install the adapter.

Step 6. Rotate the adapter-retention brackets to the open position.

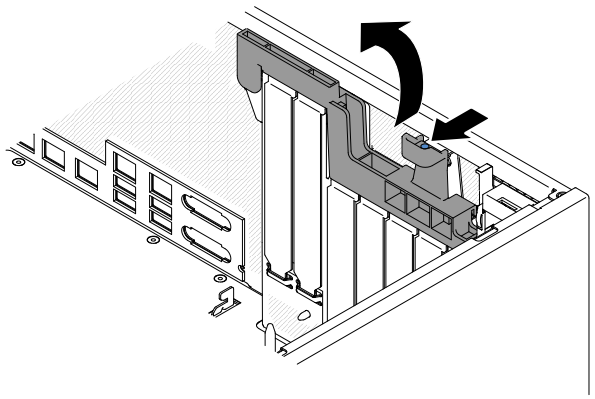


*Figure 131. Rotate the adapter-retention brackets to the open position*

Step 7. Remove the PCI slot filler, if installed. Keep the filler in a safe place for potential future use.

Step 8. Press the adapter *firmly* into the expansion slot.

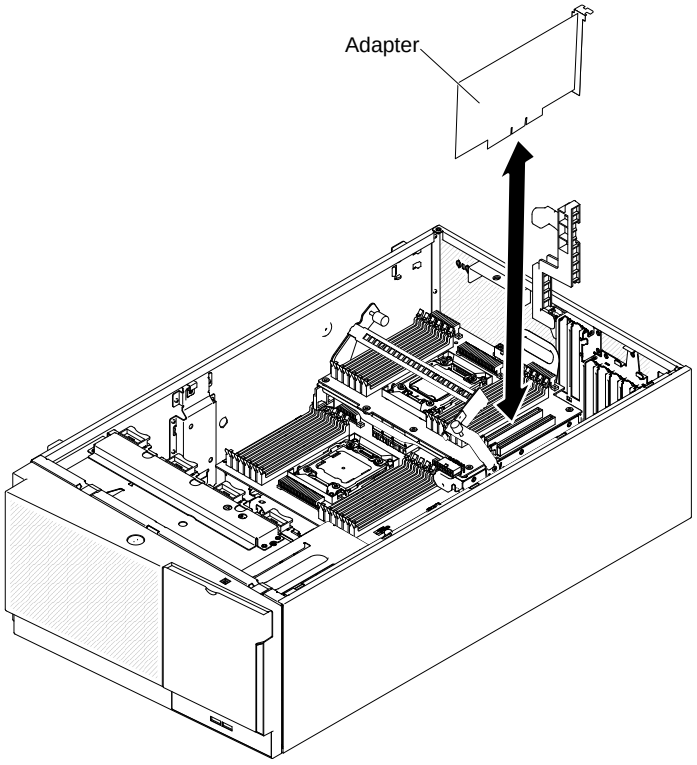



*Figure 132. Press adapter into expansion slot*

**Attention:** Incomplete insertion might cause damage to the system board or the adapter.

Step 9. Close the adapter-retention bracket.

Step 10. Connect the adapter cables (see “Internal cable routing and connectors” on page 312).

Step 11. Perform any configuration tasks that are required for the adapter.

Step 12. Install and lock the left-side cover (see “Installing the left-side cover” on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

**Note:** If the server is configured for RAID operation through an optional ServeRAID adapter, you might have to reconfigure your disk arrays after you install an adapter. See the ServeRAID documentation on the *Lenovo ServerRAID Support* CD for additional information about RAID operation and complete instructions for using ServeRAID Manager.

**Installing an adapter on the PCI-X bracket**

Use this information to install an adapter on the PCI-X bracket.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install an adapter on the PCI-X bracket, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. See the documentation that comes with the adapter for any cabling instructions and information about jumper or switch settings. (It might be easier for you to route cables before you install the adapter.)

Step 4. Touch the static-protective package that contains the adapter to any unpainted metal surface on the server; then, remove the adapter from the package.

Step 5. Locate PCI slot 1 which you will install the adapter into.

Step 6. Rotate the adapter-retention brackets on the PCI-X bracket to the open position.

**Note:** Remove the expansion-slot cover if it is installed on the PCI-X bracket and save it for future use.

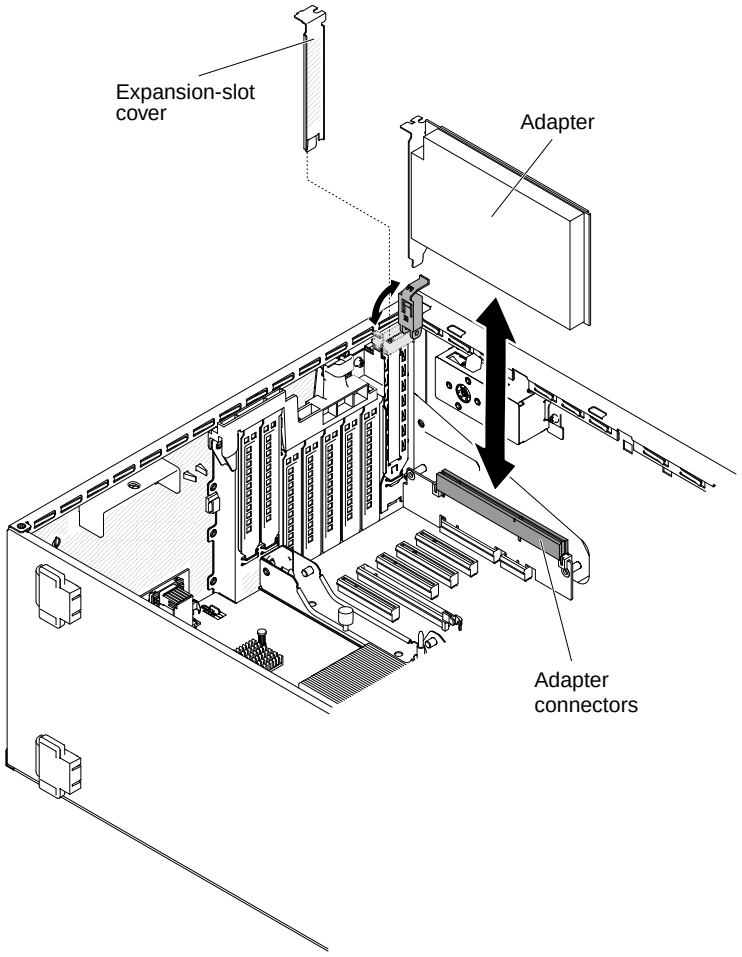



*Figure 133. Rotate the adapter-retention brackets to the open position*

Step 7. Remove the PCI slot filler, if installed. Keep the filler in a safe place for potential future use.

Step 8. Press the adapter *firmly* into the expansion slot.

**Attention:** Incomplete insertion might cause damage to the system board or the adapter.

Step 9. Close the adapter-retention on the PCI-X bracket.

Step 10. Connect the adapter cables (see “Internal cable routing and connectors” on page 312).

Step 11. Perform any configuration tasks that are required for the adapter.

Step 12. Install and lock the left-side cover (see “Installing the left-side cover” on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

**Note:** If the server is configured for RAID operation through an optional ServeRAID adapter, you might have to reconfigure your disk arrays after you install an adapter. See the ServeRAID documentation on the *Lenovo ServerRAID Support* CD for additional information about RAID operation and complete instructions for using ServeRAID Manager.

## Removing a remotely installed RAID adapter battery or flash power module

Use this information to remove a RAID adapter battery or flash power module remotely in the server.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

If a ServeRAID adapter battery or flash power module is installed and you need to replace it, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Pull the release tab outward and unlock the battery/flash power module retention clip.

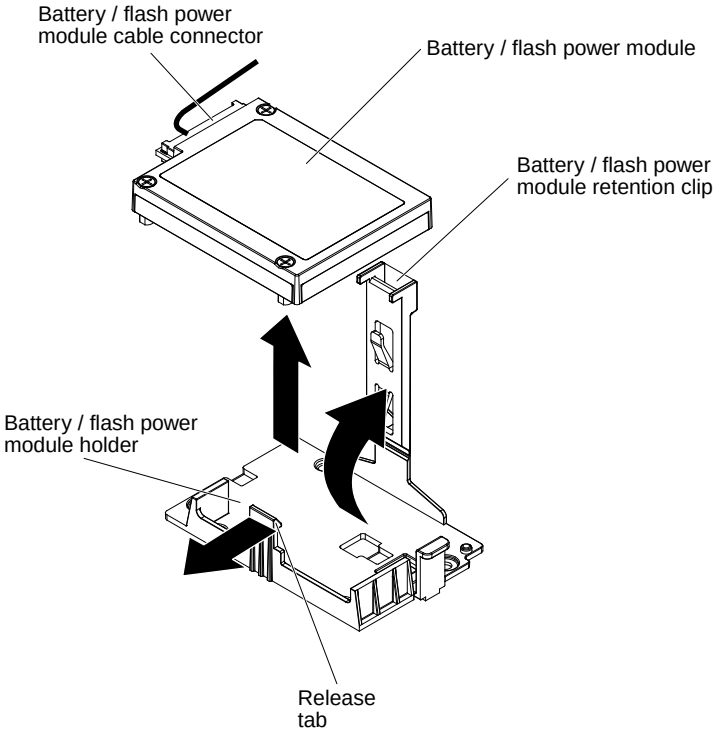



*Figure 134. Pull the release tab*

Step 4. Disconnect the battery/flash power module cable from the battery/flash power module cable connector on the battery/flash power module.

Step 5. Lift the battery/flash power module up to remove the battery/flash power module from the battery/flash power module holder.

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing a RAID adapter battery or flash power module remotely in the server

Use this information to install a RAID adapter battery or flash power module remotely in the server.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

**Note:** When you install any RAID adapter that comes with batteries, it is sometimes necessary to install the batteries in another location in the server to prevent the batteries from overheating.

To install a RAID adapter battery or flash power module remotely in the server, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Install the ServeRAID adapter on the system board (see “Installing an adapter” on page 216).

Step 4. Connect one end of the battery/flash power module cable to the battery/flash power module connector.

Step 5. Route the remote battery/flash power module cable as shown in the following illustration.

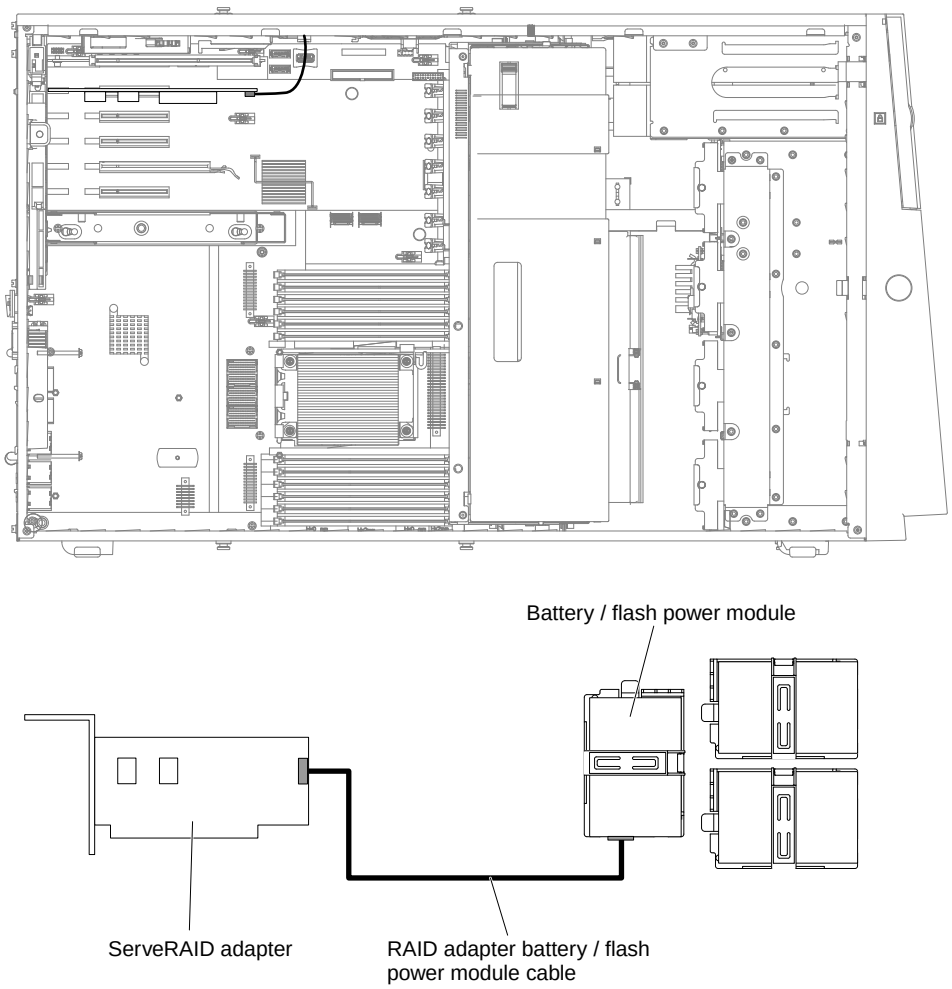



*Figure 135. Route the battery/flash power module*

**Attention:** Make sure that the cable is not pinched and does not cover any connectors or obstruct any components on the system board.

Step 6. Install the battery/flash power module:

a. Align the battery/flash power module cable connector with the slot on the battery/flash power module holder. Place the battery/flash power module into the battery/flash power module holder and make sure that the battery/flash power module holder engages the battery/flash power module securely.

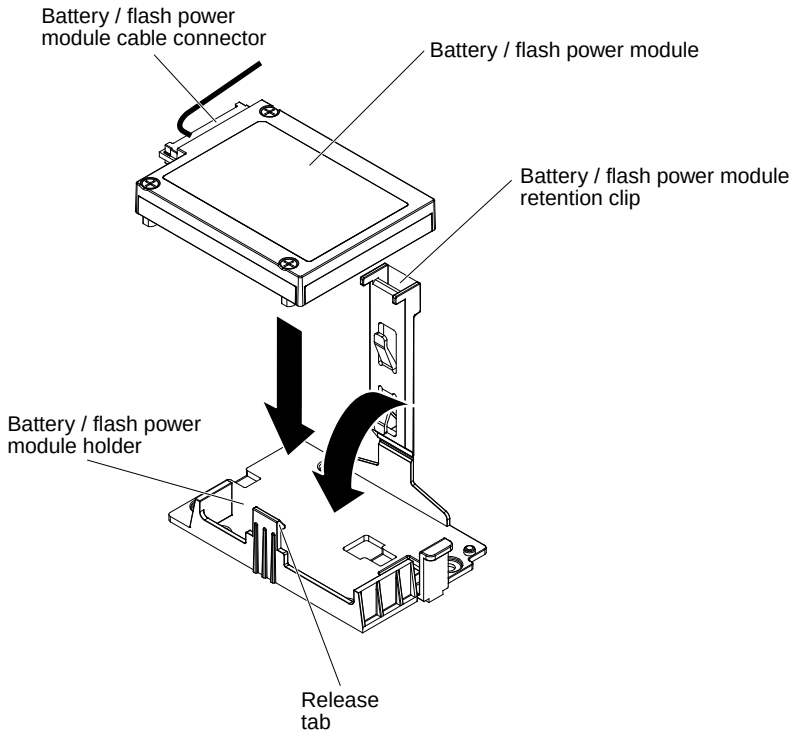



*Figure 136. Align the battery/flash power module cable connector*

**Note:** The positioning of the remote battery/flash power module depends on the type of the remote batteries/flash power module that you install.

b. Connect the other end of the battery/flash power module cable to the battery/flash power module cable connector on the battery/flash power module.

c. Lower and press down on the retention clip until it snaps in place to hold the battery/flash power module firmly in place.

Step 7. Install and lock the left-side cover (see “Installing the left-side cover” on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

**Note:** You must wait approximately 3 minutes after you connect the server power cord to an electrical outlet before the power-control button becomes active.

## Removing an optional ServeRAID adapter memory module

Use this information to remove an optional ServeRAID adapter memory module.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove an optional ServeRAID adapter memory module, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the adapter (see “Removing an adapter” on page 213).

Step 4. Grasp the memory module and lift to remove it from the connector on the ServeRAID adapter.

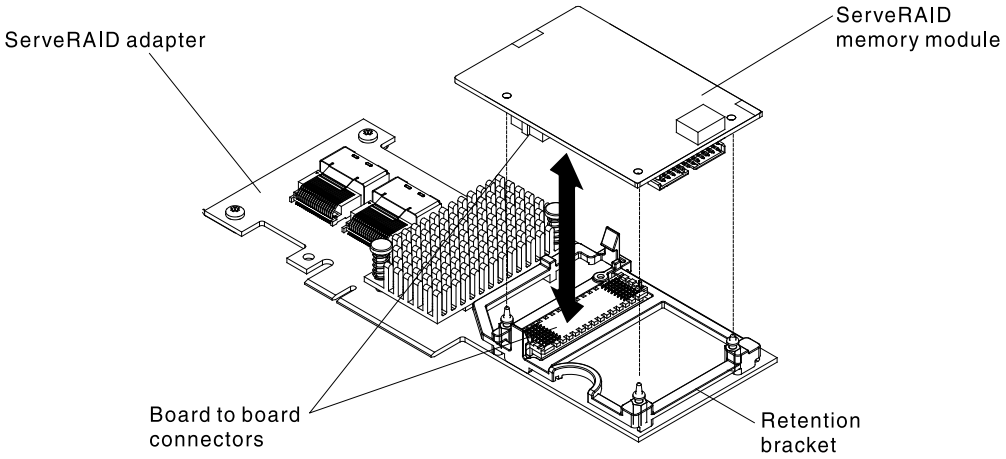



*Figure 137. Memory card removal*

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing an optional ServeRAID adapter memory module

Use this information to install an optional ServeRAID adapter memory module.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install an optional ServeRAID adapter memory module, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the ServeRAID adapter if necessary (see “Removing an adapter” on page 213).

Step 4. Touch the static-protective package that contains the memory card to any unpainted metal surface on the server; then, remove the memory card from the package.

Step 5. Align the memory module with the connector on the ServeRAID adapter and push it into the connector until it is firmly seated.

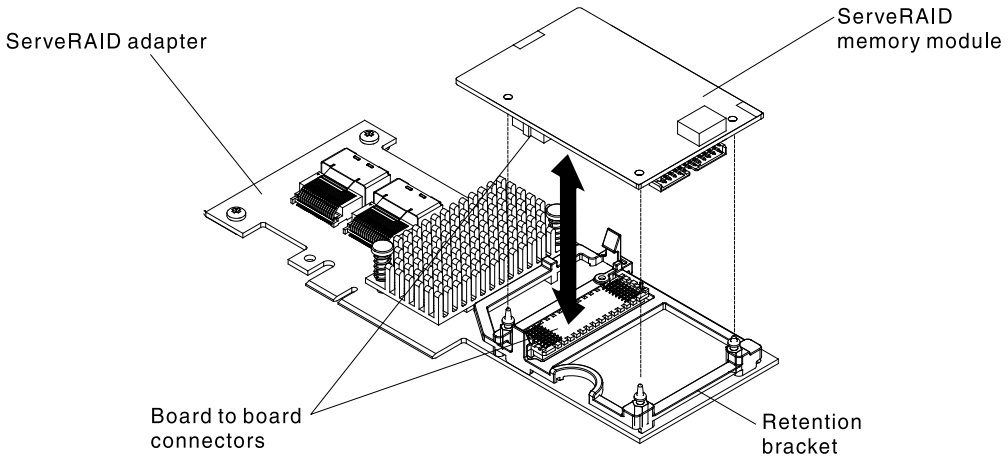



*Figure 138. Align the memory module*

Step 6. Reinstall the ServeRAID adapter (see “Installing an adapter” on page 216).

Step 7. Install and lock the left-side cover (see “Installing the left-side cover” on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

## Removing a PCI-X bracket

Use this information to remove a PCI-X bracket.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove a PCI-X bracket, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the adapter if one is installed on the PCI-X bracket (see “Removing an adapter” on page 213).

Step 4. Remove the screw that secures the PCI-X bracket to the server chassis.

Step 5. Pull the PCI-X bracket out of PCI slot 1 and save it for future use.

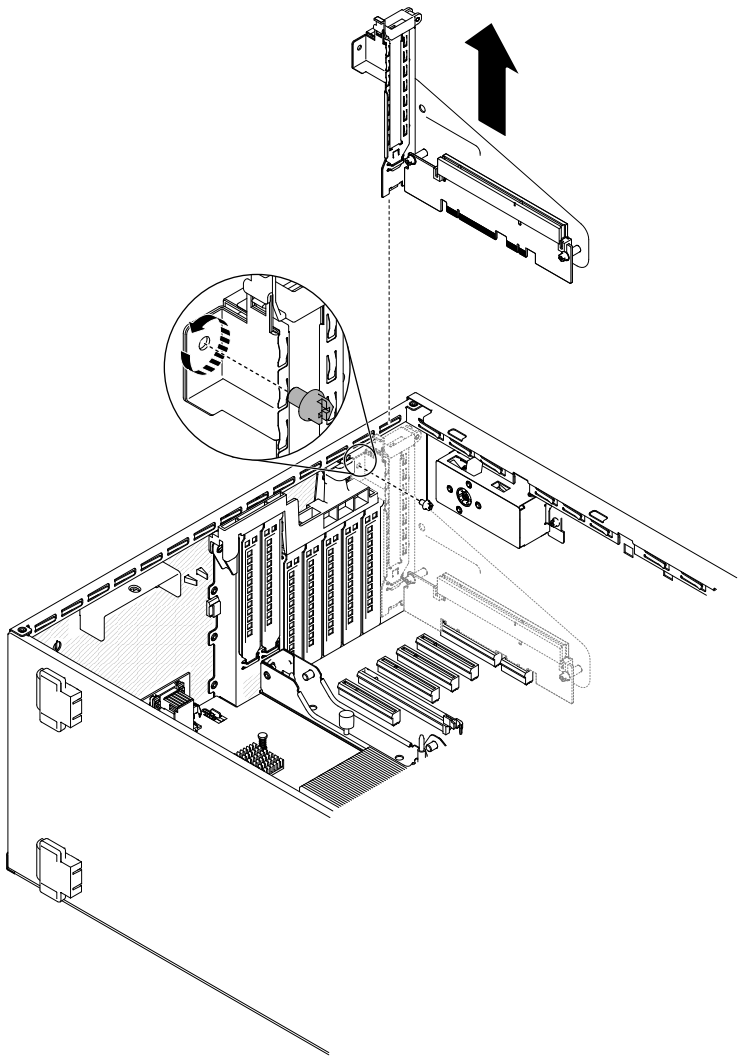


*Figure 139. Pull the PCI-X bracket out of PCI slot 1*

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing a PCI-X bracket

Use this information to install a PCI-X bracket.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install a PCI-X bracket, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Touch the static-protective package that contains the adapter to any unpainted metal surface on the server; then, remove the adapter from the package.

Step 4. Locate PCI slot 1 which you will install the PCI-X bracket.

Step 5. Remove the screw that secures the expansion-slot cover.

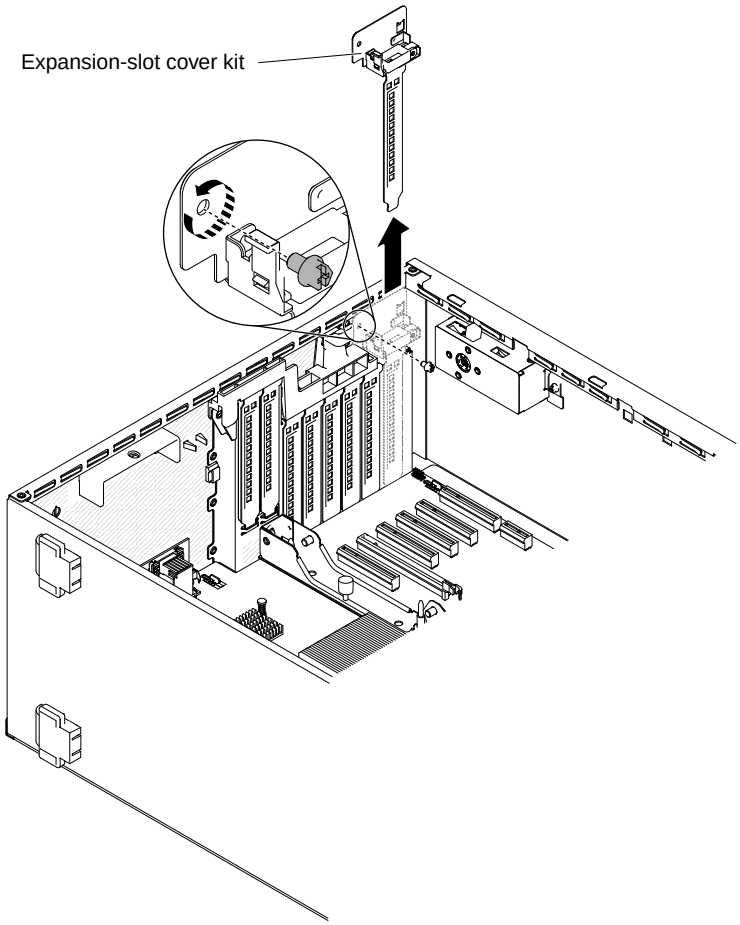



*Figure 140. Remove screw that secures the expansion-slot cover*

Step 6. Remove the expansion-slot cover kit in PCI slot 1 and save it for future use.

Step 7. Press the PCI-X bracket *firmly* into PCI slot 1.

**Attention:** Incomplete insertion might cause damage to the system board or the adapter.

Step 8. Make sure the latch on the side of the PCI-X bracket is secured to the rear of the server chassis.

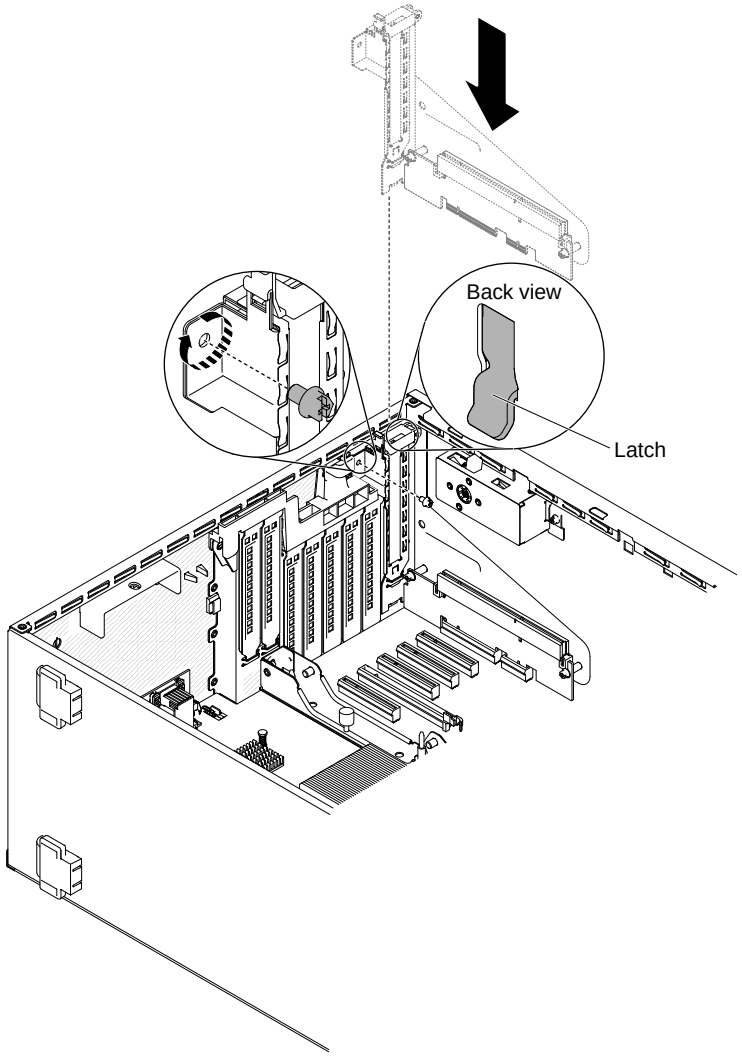



*Figure 141. Remove screw that secures the expansion-slot cover*

Step 9. Install the screw that secures the PCI-X bracket to the server.

Step 10. Reinstall and lock the left-side cover (see “Installing the left-side cover” on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

## Removing a simple-swap fan

Use this information to remove a simple-swap fan in the server.

The server comes with two 120 mm x 38 mm simple-swap fans in the fan cage assembly. The following instructions can be used to install any simple-swap fan in the server.

**Notes:**

1. When you install the second microprocessor, you must also install fan 2 and the air baffle that come with the second microprocessor upgrade kit. The fan filler can only be removed when fan 2 is installed. Otherwise, the fan filler must be installed for proper cooling.

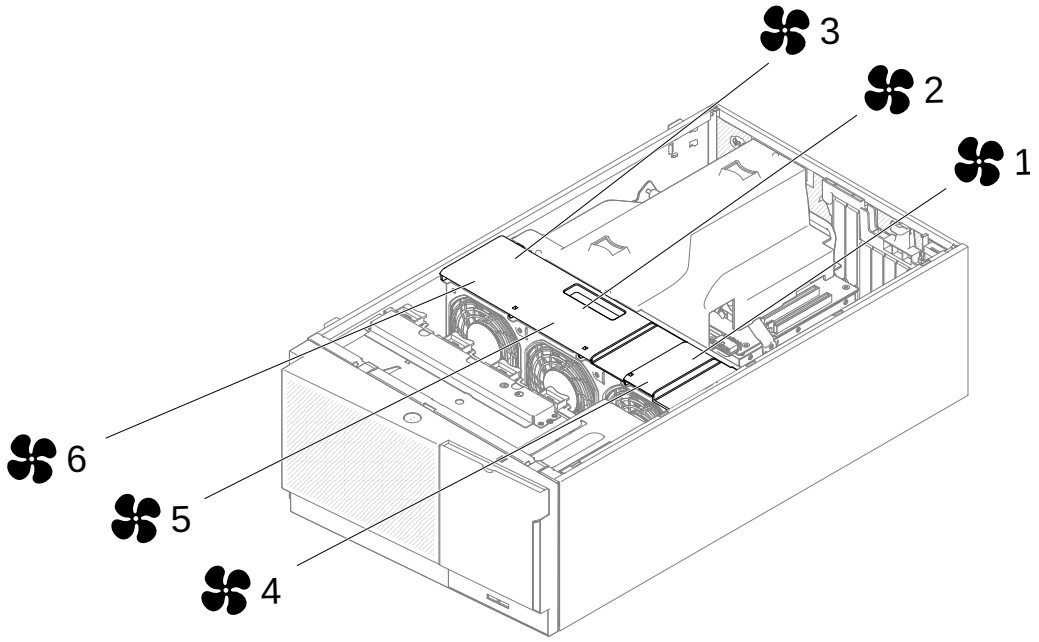



*Figure 142. The available fan sockets in the server*

2. You can order the three additional fans for redundant cooling.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

**Attention:** Static electricity that is released to internal server components when the server is powered-on might cause the server to halt, which might result in the loss of data. To avoid this potential problem, always use an electrostatic-discharge wrist strap or other grounding system when you work inside the server with the power on.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove a simple-swap fan, complete the following steps.

Step 1. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 2. Open the fan cage cover.

Step 3. Open the fan-locking handle by sliding the blue release latch in the direction of the arrow.

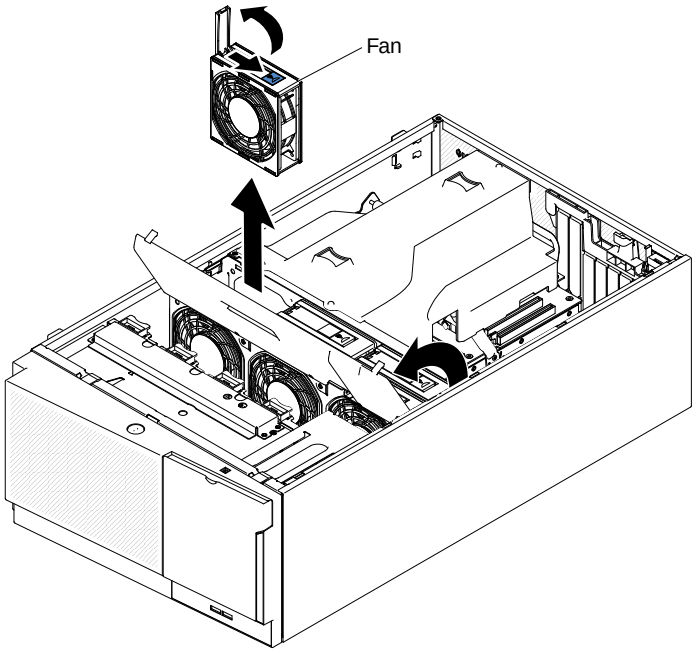



*Figure 143. Open the fan-locking handle*

Step 4. Pull outward on the free end of the handle to remove the fan from the server.

Step 5. If you are instructed to return the simple-swap fan, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing a simple-swap fan

Use this information to install a simple-swap fan in the server.

The server comes with two 120 mm x 38 mm simple-swap fans in the fan cage assembly. The following instructions can be used to install any simple-swap fan in the server.

**Notes:**

1. When you install the second microprocessor, you must also install fan 2 and the air baffle that come with the second microprocessor upgrade kit. The fan filler can only be removed when fan 2 is installed. Otherwise, the fan filler must be installed for proper cooling.

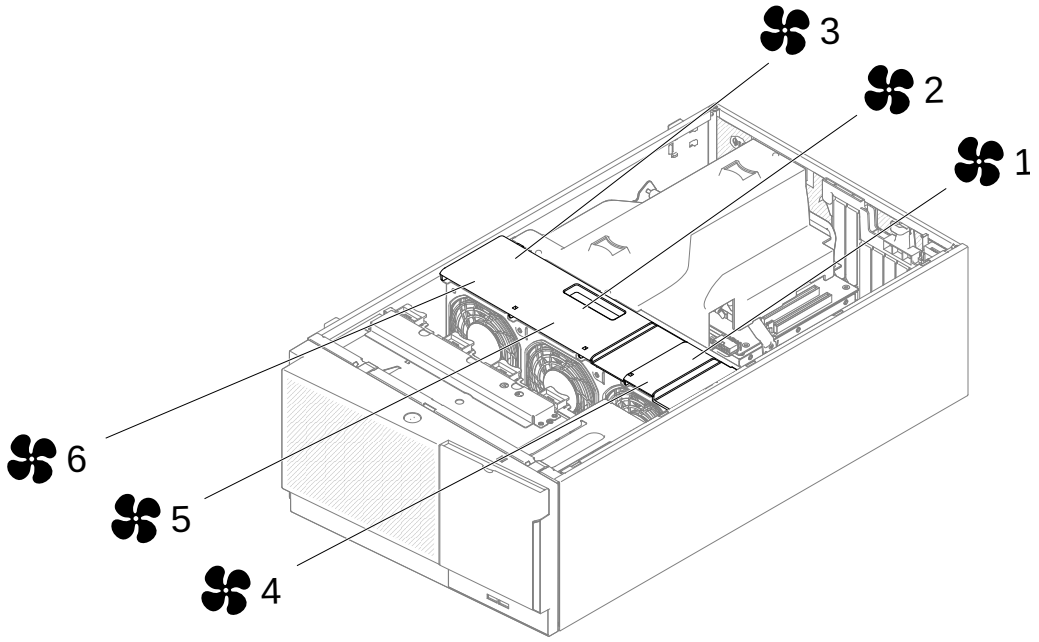



*Figure 144. The available fan sockets in the server*

2. You can order the three additional fans for redundant cooling.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

**Attention:** Static electricity that is released to internal server components when the server is powered-on might cause the server to halt, which might result in the loss of data. To avoid this potential problem, always use an electrostatic-discharge wrist strap or other grounding system when you work inside the server with the power on.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install a simple-swap fan, complete the following steps.

Step 1. Touch the static-protective package that contains the simple-swap fan to any unpainted metal surface on the server; then, remove the fan from the package.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Open the fan cage cover.

Step 4. Perform the following steps only if you want to install the simple swap fan in the Fan 2 compartment:

a. Unfasten and open the release lever (see “Removing the fan cage assembly” on page 272).

b. Press and release the clip on the fan filler to remove the fan filler from the server.

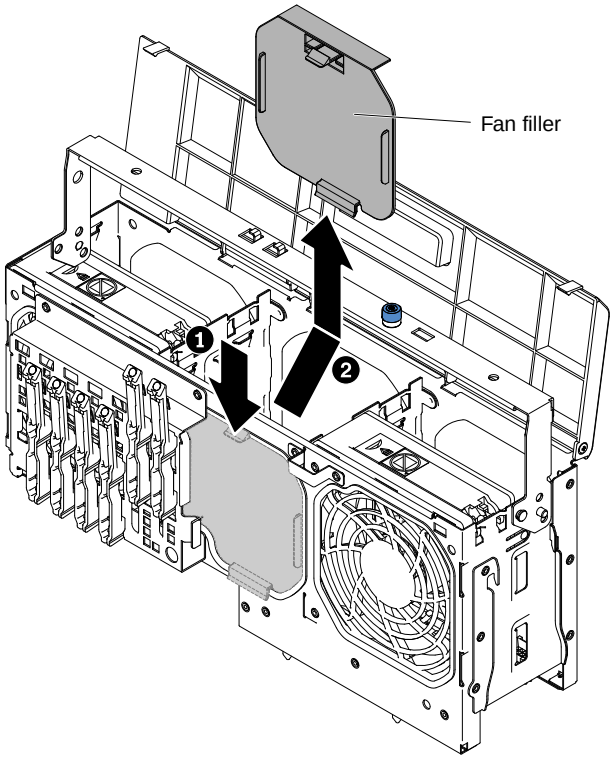



*Figure 145. Fan filler removal*

c. Close and fasten the release lever.

Step 5. Open the fan-locking handle on the replacement fan.

Step 6. Insert the fan into the socket and close the handle to the locked position.

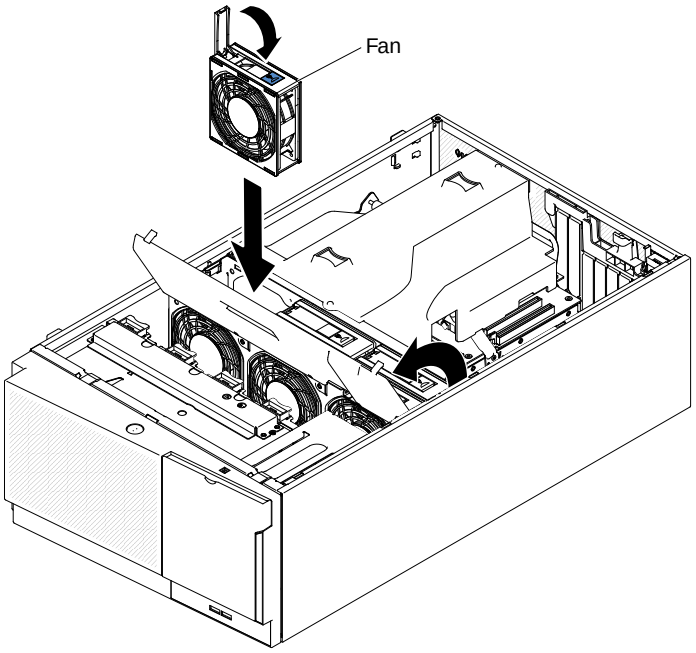



*Figure 146. Insert fan into the socket*

Step 7. Close the fan cage cover.

Step 8. Install and lock the left-side cover (see “Replacing the left-side cover” on page 99).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

## Removing the system battery

Use this information to remove the system battery.

The following illustration shows the location of the system battery.

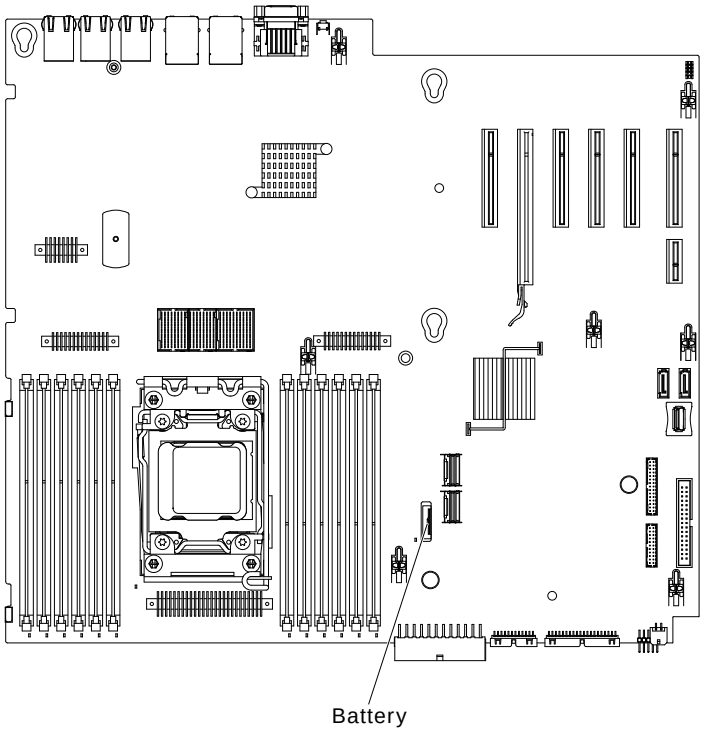



*Figure 147. System battery*

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove the battery, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the system battery:

a. If there is a rubber cover on the battery holder, use your fingers to lift the battery cover from the battery connector.

b. Use one finger to tilt the battery horizontally out of its socket, pushing it away from the socket.

**Attention:** Neither tilt nor push the battery by using excessive force.

c. Use your thumb and index finger to lift the battery from the socket.

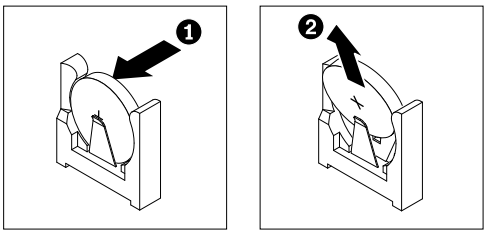



*Figure 148. System battery removal*

**Attention:** Do not lift the battery by using excessive force. Failing to remove the battery properly may damage the socket on the system board. Any damage to the socket may require replacing the system board.

Step 4. Dispose of the battery as required by local ordinances or regulations (see the *Environmental Notices and User Guide* for more information).

## Installing the system battery

Use this information to install the system battery.

The following notes describe information that you must consider when you replace the battery in the server:

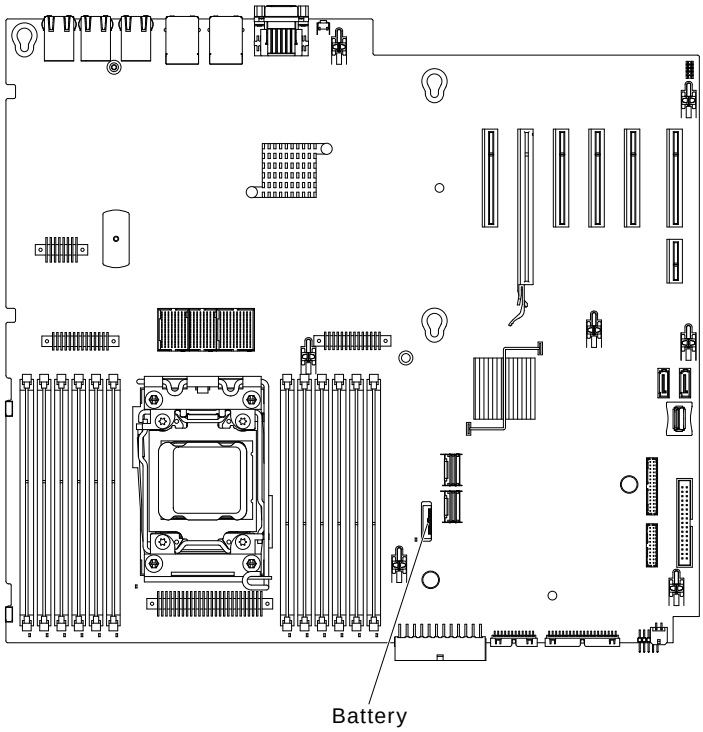



*Figure 149. System battery*

- You must replace the battery with a lithium battery of the same type from the same manufacturer.
- To order replacement batteries, call 1-800-426-7378 within the United States, and 1-800-465-7999 or 1-800-465-6666 within Canada. Outside the U.S. and Canada, call your Lenovo sales representative or Lenovo reseller.

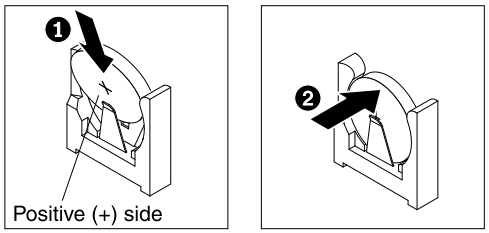
- After you replace the battery, you must reconfigure the server and reset the system date and time.
- To avoid possible danger, read and follow the following safety statement.

**Statement 2**

**CAUTION:**
**When replacing the lithium battery, use only Lenovo Part Number 33F8354 or an equivalent type battery recommended by the manufacturer. If your system has a module containing a lithium battery, replace it only with the same module type made by the same manufacturer. The battery contains lithium and can explode if not properly used, handled, or disposed of.**

**Do not:**

- **Throw or immerse into water**
- **Heat to more than 100°C (212°F)**
- **Repair or disassemble**




To install the replacement battery, complete the following steps.

Step 1. Follow any special handling and installation instructions that come with the replacement battery.

Step 2. Insert the new battery:

a. Tilt the battery so that you can insert it into the socket on the side opposite the battery clip.

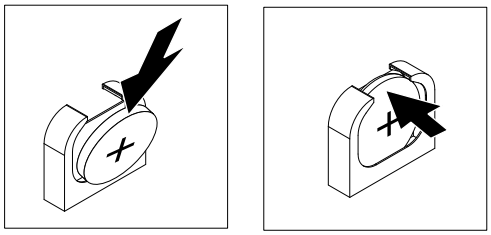


*Figure 150. Tilt the battery*

b. Press the battery down into the socket until it clicks into place. Make sure that the battery clip holds the battery securely.

c. If you removed a rubber cover from the battery holder, use your fingers to install the battery cover on top of the battery connector.

Step 3. Install and lock the left-side cover (see “Installing the left-side cover” on page 185).

Step 4. Reconnect the external cables and power cords; then, turn on the attached devices and turn on the server.

**Note:** You must wait approximately 3 minutes after you connect the server power cord to an electrical outlet before the power-control button becomes active.

Step 5. Start the Setup utility and reset the configuration:

a. Set the system date and time.

b. Set the power-on password.

c. Reconfigure the server.

See “Starting the Setup utility” on page 107 for details.

## Removing the USB cable and light path diagnostics assembly

Use this information to remove the USB cable and light path diagnostics assembly.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove the USB cable and light path diagnostics assembly from the server, complete the following steps.

Step 1. Carefully lay the server down on its side.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 4. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 5. Disconnect the light path diagnostics cable from the system board (see “System-board internal connectors” on page 27 and “Internal cable routing and connectors” on page 312).

Step 6. Stand the server back up in its vertical position.

Step 7. Open the bezel by pressing the button on the left edge of the bezel, and rotate the left side of the bezel away from the server.

Step 8. Press down on the release latch on the bottom of the USB cable and light path diagnostics assembly bracket; then, rotate the top of the mounting bracket away from the server.

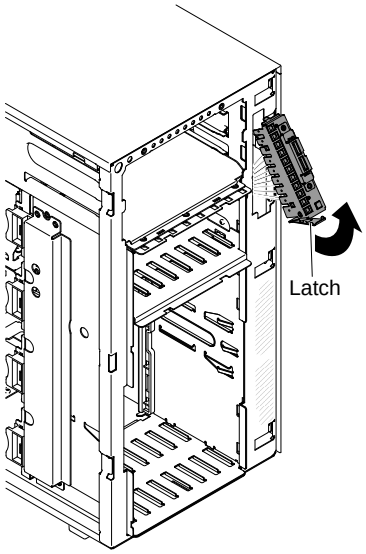



*Figure 151. Release latch*

Step 9. Remove the light path diagnostics assembly (see “Removing the light path diagnostics assembly” on page 239).

Step 10. Remove the USB cable assembly (see “Removing the USB cable assembly” on page 242).

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing the USB cable and light path diagnostics assembly

Use the information to install the USB cable and light path diagnostics assembly.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install the USB cable and light path diagnostics assembly, complete the following steps.

Step 1. Carefully lay the server down on its side.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 4. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 5. Stand the server back up in its vertical position.

Step 6. Touch the static-protective package that contains the USB cable and light path diagnostics assembly to any unpainted metal surface on the server; then, remove the assembly from the package.

Step 7. Install the light path diagnostics assembly (see “Installing the light path diagnostics assembly” on page 241).

Step 8. Install the USB cable assembly (see “Installing the USB cable assembly” on page 244).

Step 9. Position the top of the USB cable and light path diagnostics assembly mounting bracket into the opening and rotate the bottom of the bracket toward the server until it clicks into place.

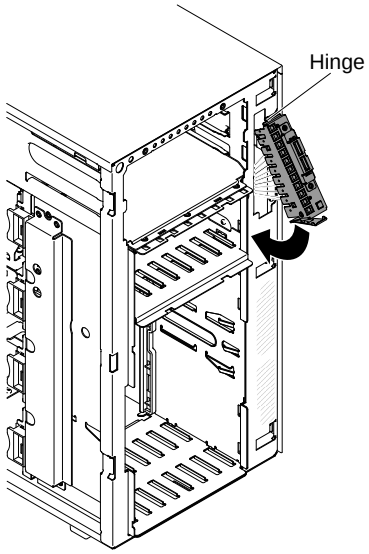



*Figure 152. Position the top of the USB cable*

Step 10. Connect the USB and light path diagnostics cable to the system board (see “System-board internal connectors” on page 27 and “Internal cable routing and connectors” on page 312).

Step 11. Install the fan cage assembly (see “Installing the fan cage assembly” on page 274).

Step 12. Install the air baffle (see “Installing the air baffle” on page 190).

Step 13. Install the hot-swap power supply or power supplies (see “Installing a hot-swap power supply” on page 92).

Step 14. Install the bezel (see “Installing the bezel” on page 187).

Step 15. Install and lock the left-side cover (see “Installing the left-side cover” on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

## Removing the light path diagnostics assembly

Use the information to remove the light path diagnostics assembly.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove the light path diagnostics assembly from the server, complete the following steps.

Step 1. Carefully lay the server down on its side.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 4. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 5. Disconnect the light path diagnostics cable from the system board (see “System-board internal connectors” on page 27 and “Internal cable routing and connectors” on page 312).

Step 6. Stand the server back up in its vertical position.

Step 7. Open the bezel by pressing the button on the left edge of the bezel, and rotate the left side of the bezel away from the server.

Step 8. Press down on the release latch on the bottom of the USB cable and light path diagnostics assembly bracket; then, rotate the top of the mounting bracket away from the server.

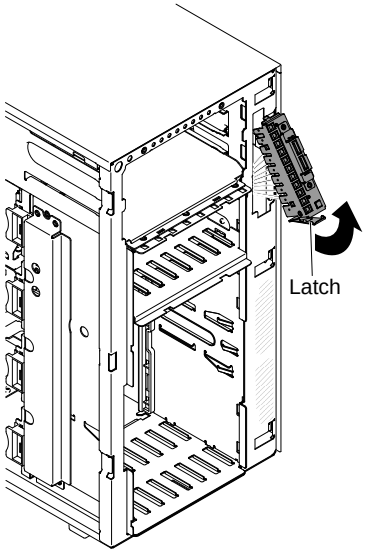



*Figure 153. Release latch*

Step 9. Pry the holes on the light path diagnostics assembly bracket to release the light path diagnostics assembly.

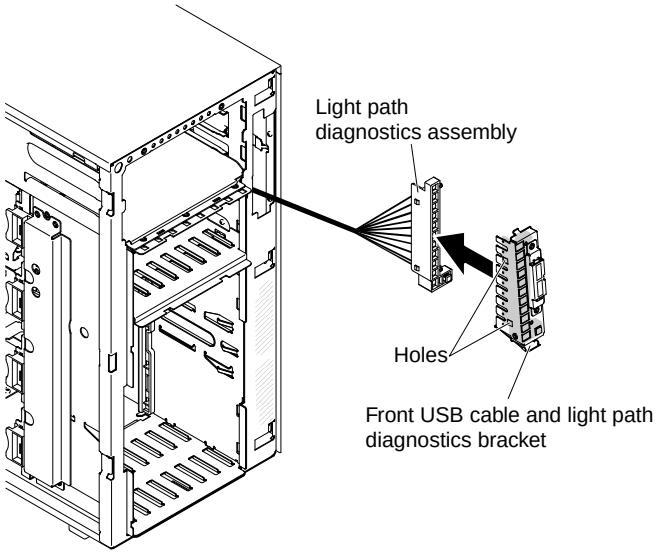



*Figure 154. Pry holes on LED*

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing the light path diagnostics assembly

Use the information to install the light path diagnostics assembly.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install the light path diagnostics assembly, complete the following steps.

Step 1. Carefully lay the server down on its side.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 4. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 5. Stand the server back up in its vertical position.

Step 6. Remove the USB cable and light path diagnostics assembly (see “Removing the USB cable and light path diagnostics assembly” on page 237).

Step 7. Touch the static-protective package that contains the light path diagnostics assembly to any unpainted metal surface on the server; then, remove the assembly from the package.

Step 8. Install the light path diagnostics assembly into the mounting bracket.

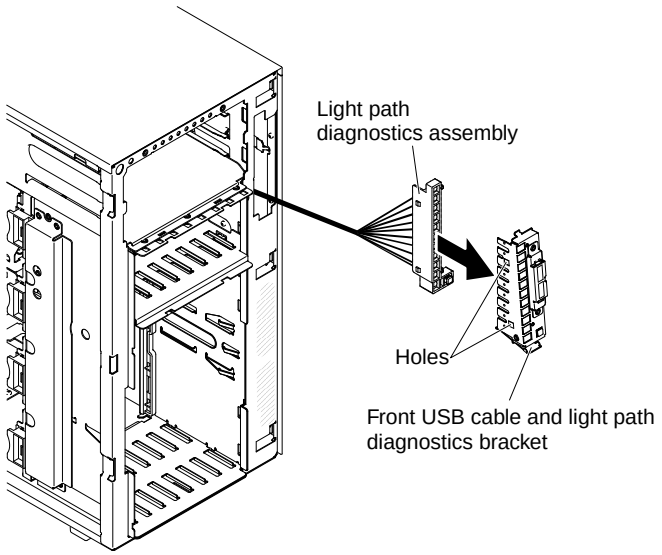



*Figure 155. Light path diagnostics assembly installation*

Step 9. Position the top of the USB cable and light path diagnostics assembly mounting bracket into the opening and rotate the bottom of the bracket toward the server until it clicks into place.

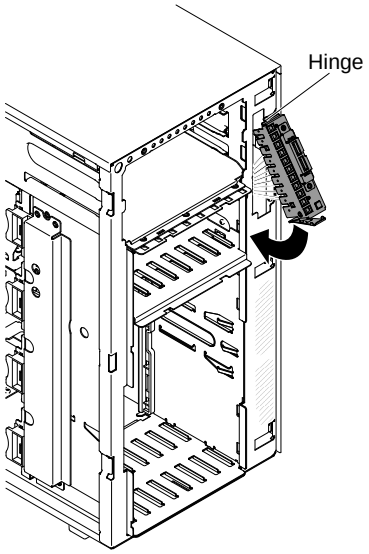



*Figure 156. Position the top of the USB cable*

Step 10. Install the USB cable and light path diagnostics assembly (see “Installing the USB cable and light path diagnostics assembly” on page 238).

Step 11. Connect the light path diagnostics cable to the system board. See “System-board internal connectors” on page 27 and “Internal cable routing and connectors” on page 312 to locate the USB and light path diagnostics connectors on the system board.

Step 12. Install the fan cage assembly (see “Installing the fan cage assembly” on page 274).

Step 13. Install the air baffle (see “Installing the air baffle” on page 190).

Step 14. Install the bezel (see “Installing the bezel” on page 187).

Step 15. Install and lock the left-side cover (see “Installing the left-side cover” on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

## Removing the USB cable assembly

Use the information to remove the USB cable assembly.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove the USB cable assembly from the server, complete the following steps.

Step 1. Carefully lay the server down on its side.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 4. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 5. Disconnect the USB assembly cable from the system board (see “System-board internal connectors” on page 27 and “Internal cable routing and connectors” on page 312).

Step 6. Stand the server back up in its vertical position.

Step 7. Open the bezel by pressing the button on the left edge of the bezel, and rotate the left side of the bezel away from the server.

Step 8. Press down on the release latch on the bottom of the USB cable and light path diagnostics assembly bracket; then, rotate the top of the mounting bracket away from the server.

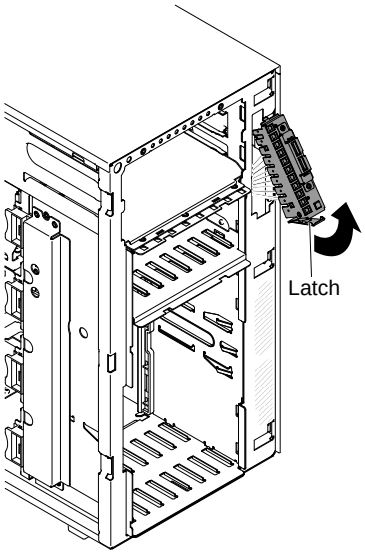



*Figure 157. Release latch*

Step 9. Squeeze the retaining clips on each side of the USB cable connectors and pull the USB cable away from the mounting bracket.

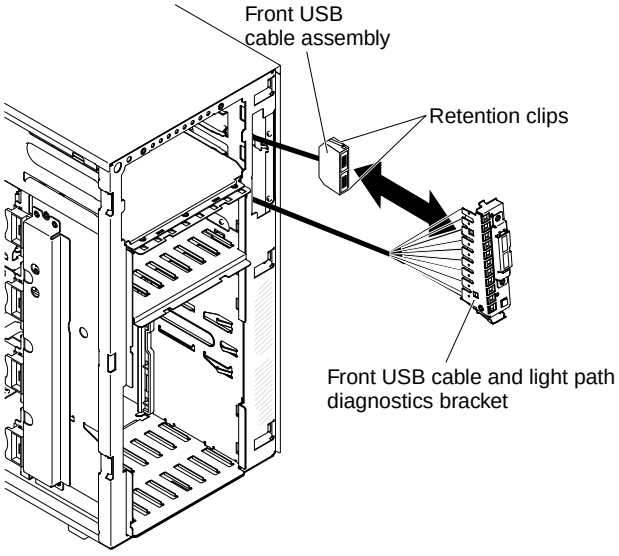



*Figure 158. Squeeze retaining clips*

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing the USB cable assembly

Use the information to install the USB cable assembly.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install the USB cable assembly, complete the following steps.

Step 1. Carefully lay the server down on its side.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 4. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 5. Stand the server back up in its vertical position.

Step 6. Remove the USB cable and light path diagnostics assembly (see “Removing the USB cable and light path diagnostics assembly” on page 237).

Step 7. Touch the static-protective package that contains the USB cable assembly to any unpainted metal surface on the server; then, remove the assembly from the package.

Step 8. Squeeze the retaining clips on each side of the USB cable connectors and align the key on the cable connector with the notch on the mounting bracket.

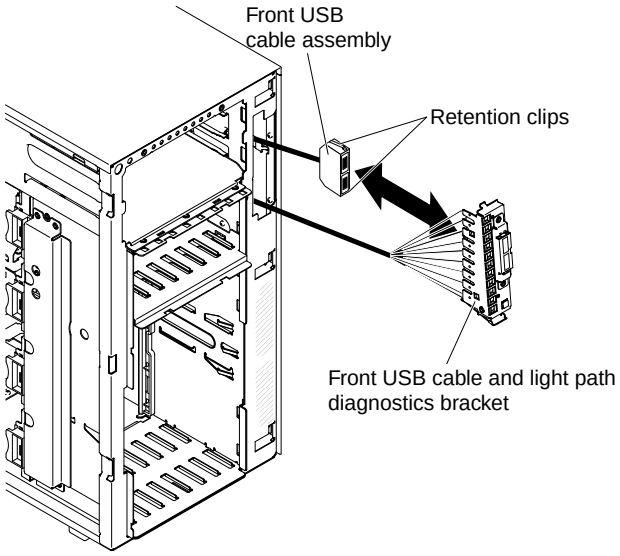



*Figure 159. Squeeze the clips*

Step 9. Insert the USB cable assembly into the mounting bracket; then, release the retaining clips.

Step 10. Position the bottom of the USB cable and light path diagnostics assembly mounting bracket into the opening and rotate the top of the bracket toward the server until it clicks into place.

Step 11. Install the USB cable and light path diagnostics assembly (see “Installing the USB cable and light path diagnostics assembly” on page 238).

Step 12. Connect the USB cable to the system board (see “System-board internal connectors” on page 27 and “Internal cable routing and connectors” on page 312).

Step 13. Install the fan cage assembly (see “Installing the fan cage assembly” on page 274).

Step 14. Install the air baffle (see “Installing the air baffle” on page 190).

Step 15. Install the bezel (see “Installing the bezel” on page 187).

Step 16. Install and lock the left-side cover (see “Installing the left-side cover” on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

## Removing the 2.5-inch hard disk drive backplane

Use this information to remove the 2.5-inch hard disk drive backplane.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove a 2.5-inch hard disk drive backplane, complete the following steps.

Step 1. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 2. Open the bezel by pressing the button on the left edge of the bezel, and rotate the left side of the bezel away from the server.

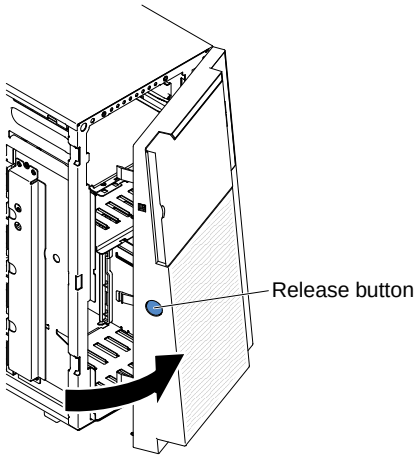



*Figure 160. Open bezel*

Step 3. Remove the 2.5-inch hot-swap hard disk drives (see “Removing a 2.5-inch hot-swap hard disk drive” on page 199).

Step 4. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 5. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 6. Note where the power, signal, and configuration cables are connected to the 2.5-inch hard disk drive backplane; then, disconnect them (see “Internal cable routing and connectors” on page 312).

Step 7. Lift the retention latches that hold the backplane in place; then, grasp the top edge of the backplane and rotate it toward the rear of the server. When the backplane is clear of the drive-cage retention tabs, remove it from the server.

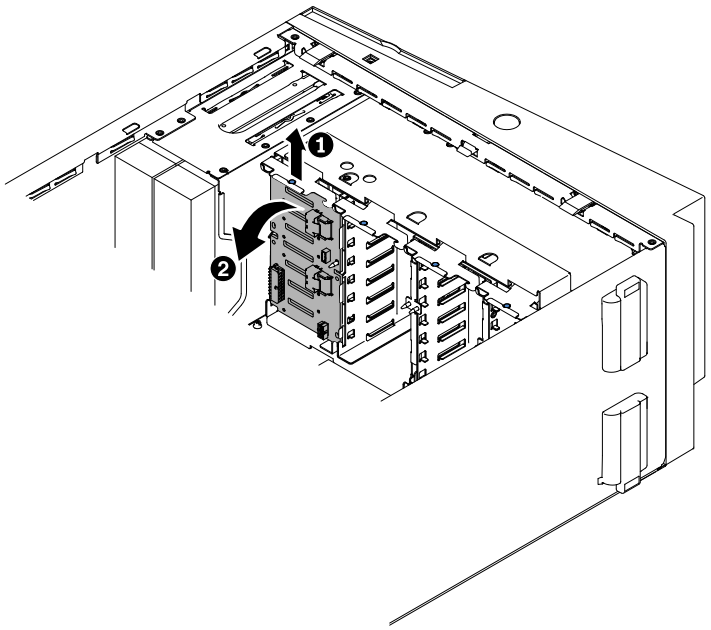



*Figure 161. Lift retention latches*

Step 8. If you are removing another SAS backplane, repeat steps 6 and 7 to remove the remaining backplane.

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing the 2.5-inch hard disk drive backplane

Use this information to install the 2.5-inch hard disk drive backplane.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install a 2.5-inch hard disk drive backplane, complete the following steps.

Step 1. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 2. Open the bezel by pressing the button on the left edge of the bezel, and rotate the left side of the bezel away from the server.

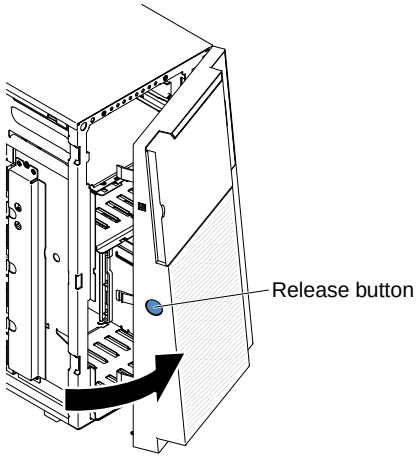



*Figure 162. Open bezel*

Step 3. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 4. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 5. Touch the static-protective package that contains the hard disk drive backplane to any unpainted metal surface on the server; then, remove the backplane from the package.

Step 6. Position the 2.5-inch hard disk drive backplane in the drive-cage retention tabs; then, rotate the top of the backplane toward the locator pins until the latches click into place.

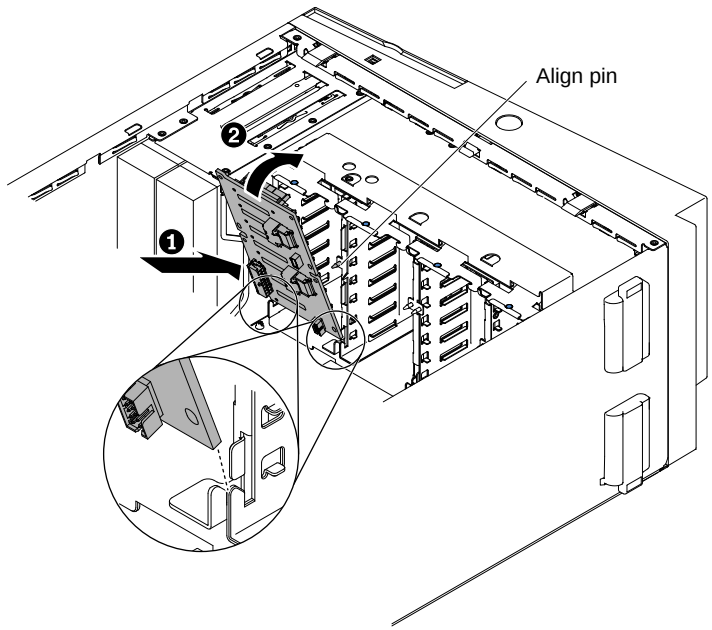



*Figure 163. Position the 2.5-inch HDD backplane*

Step 7. Connect the power, signal, and configuration cables to the 2.5-inch hard disk drive backplane (see “Hard disk drive backplane connectors” on page 33 and “Internal cable routing and connectors” on page 312).

Step 8. If you are replacing another 2.5-inch hard disk drive backplane, repeat steps 5 to 7 to install the additional backplane.

Step 9. Install the 2.5-inch hot-swap hard disk drives (see “Installing a 2.5-inch hot-swap hard disk drive” on page 200).

Step 10. Close the bezel.

Step 11. Install the fan cage assembly (see “Installing the fan cage assembly” on page 274).

Step 12. Install the air baffle (see “Installing the air baffle” on page 190).

Step 13. Install and lock the left-side cover (see “Installing the left-side cover” on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

## Removing the 3.5-inch hard disk drive backplane

Use this information to remove the 3.5-inch hard disk drive backplane.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove a 3.5-inch hard disk drive backplane, complete the following steps.

Step 1. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 2. Open the bezel by pressing the button on the left edge of the bezel, and rotate the left side of the bezel away from the server.

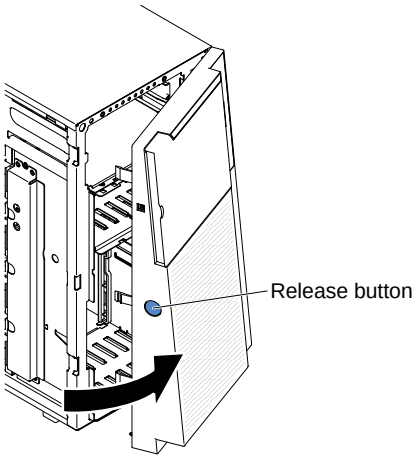



*Figure 164. Open bezel*

Step 3. Remove the 3.5-inch hot-swap hard disk drives (see “Removing a 3.5-inch hot-swap hard disk drive” on page 201).

Step 4. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 5. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 6. Note where the power, signal, and configuration cables are connected to the 3.5-inch hard disk drive backplane; then, disconnect them (see “Internal cable routing and connectors” on page 312).

Step 7. Remove the screws on the backplane.

Step 8. Rotate the backplane away from the bottom side of the drive cage until the guide pins on the drive cage disengage from the backplane.

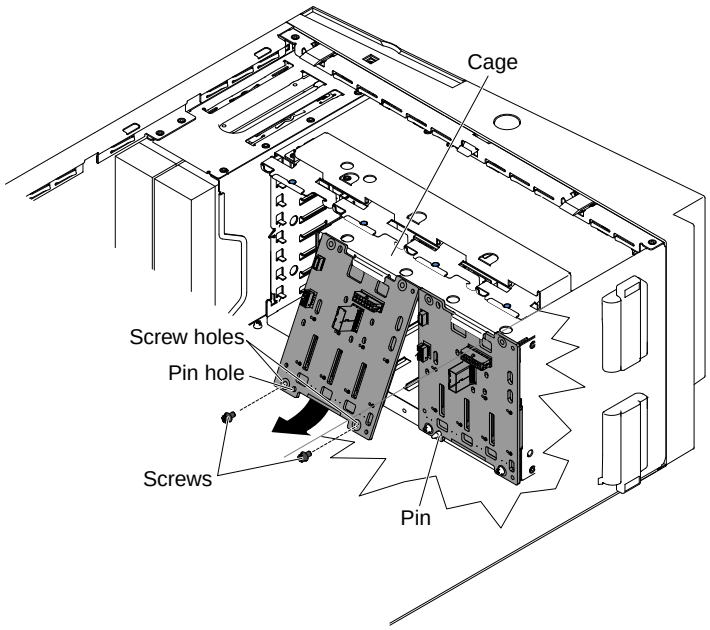



*Figure 165. Rotate backplane away*

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing the 3.5-inch hard disk drive backplane

Use this information to install the 3.5-inch hard disk drive backplane.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install a 3.5-inch hard disk drive backplane, complete the following steps.

Step 1. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 2. Open the bezel by pressing the button on the left edge of the bezel, and rotate the left side of the bezel away from the server.

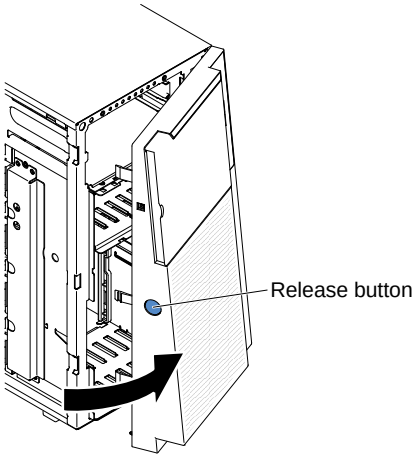



*Figure 166. Open bezel*

Step 3. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 4. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 5. Insert the bottom tabs of the 3.5-inch hard disk drive backplane onto the lower lip of the drive cage.

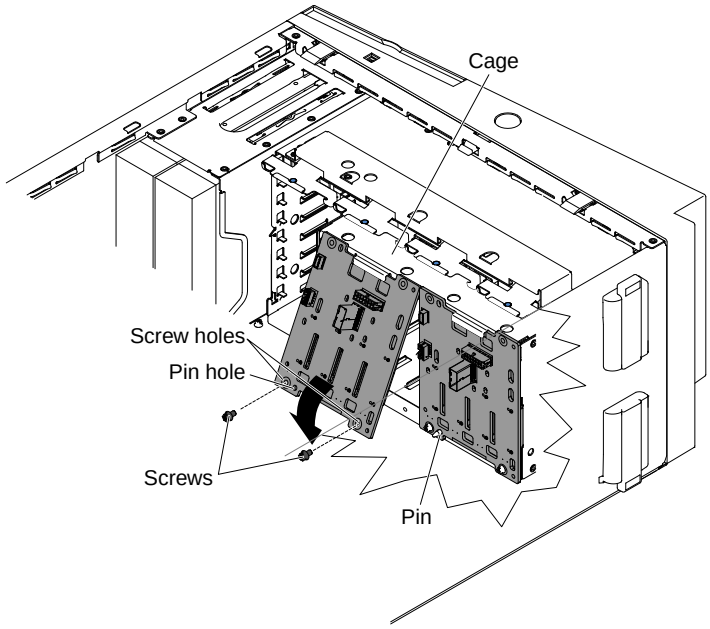



*Figure 167. Insert bottom tabs of the 3.5-inch HDD backplane*

Step 6. Rotate the backplane toward the drive cage until the guide pins on the drive cage insert securely to the holes on the backplane.

Step 7. Fasten the screws on the backplane.

Step 8. Reconnect the power, configuration, and signal cables to the 3.5-inch hard disk drive backplane (see “Internal cable routing and connectors” on page 312).

Step 9. Install the 3.5-inch hot-swap hard disk drives that were removed from the hard disk drive cage (see “Installing a 3.5-inch hot-swap hard disk drive” on page 202).

Step 10. Install the fan cage assembly (see “Installing the fan cage assembly” on page 274).

Step 11. Install the air baffle (see “Installing the air baffle” on page 190).

Step 12. Close the bezel.

Step 13. Install and lock the left-side cover (see “Installing the left-side cover” on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

## Removing the 3.5-inch hard disk drive backplate assembly

Use this information to remove the 3.5-inch hard disk drive backplate assembly.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove the 3.5-inch simple-swap hard disk drive backplate assembly, complete the following steps.

Step 1. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 2. Open the bezel by pressing the button on the left edge of the bezel, and rotate the left side of the bezel away from the server.

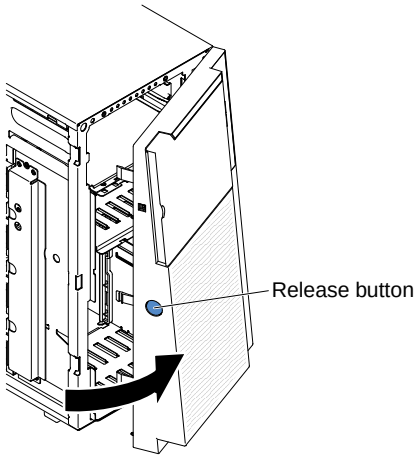



*Figure 168. Open bezel*

Step 3. Remove the 3.5-inch simple-swap hard disk drives that are installed in the hard disk drive cage (see “Removing a 3.5-inch simple-swap hard disk drive” on page 203).

Step 4. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 5. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 6. Note where the power, signal, and configuration cables are connected to the 3.5-inch hard disk drive backplate assembly; then, disconnect them (see “Internal cable routing and connectors” on page 312).

Step 7. Remove the screws on the backplate assembly.

Step 8. Rotate the backplate assembly away from the bottom side of the drive cage until the guide pins on the drive cage disengage from the backplate assembly .

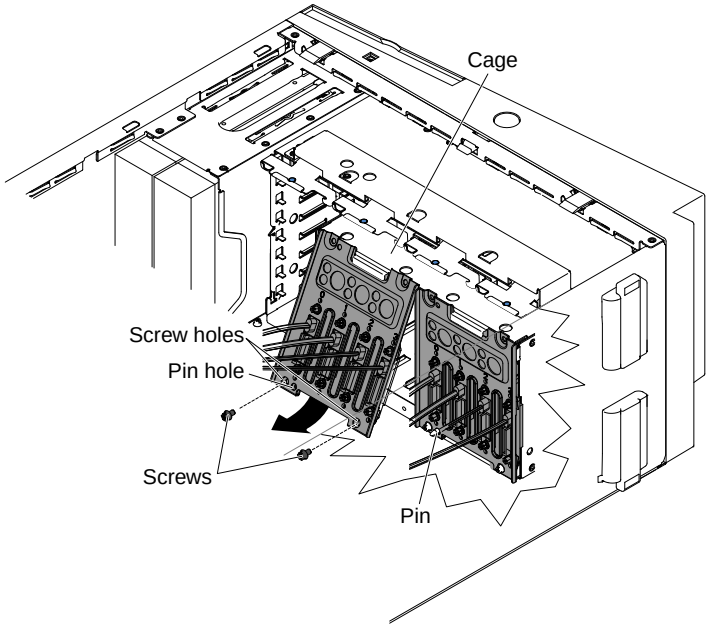



*Figure 169. Rotate backplate assembly away*

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing the 3.5-inch hard disk drive backplate assembly

Use this information to install the 3.5-inch hard disk drive backplate assembly.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install a 3.5-inch hard disk drive backplate assembly, complete the following steps.

Step 1. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 2. Open the bezel by pressing the button on the left edge of the bezel, and rotate the left side of the bezel away from the server.

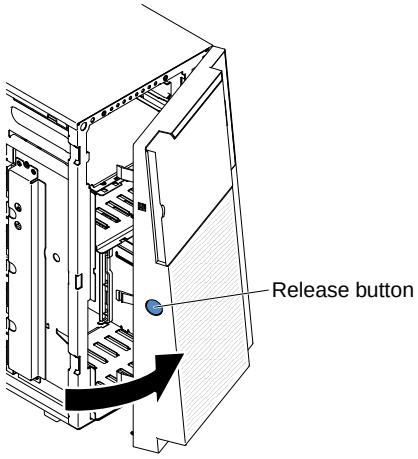



*Figure 170. Open bezel*

Step 3. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 4. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 5. Insert the bottom tabs of the 3.5-inch hard disk drive backplate assembly onto the lower lip of the drive cage.

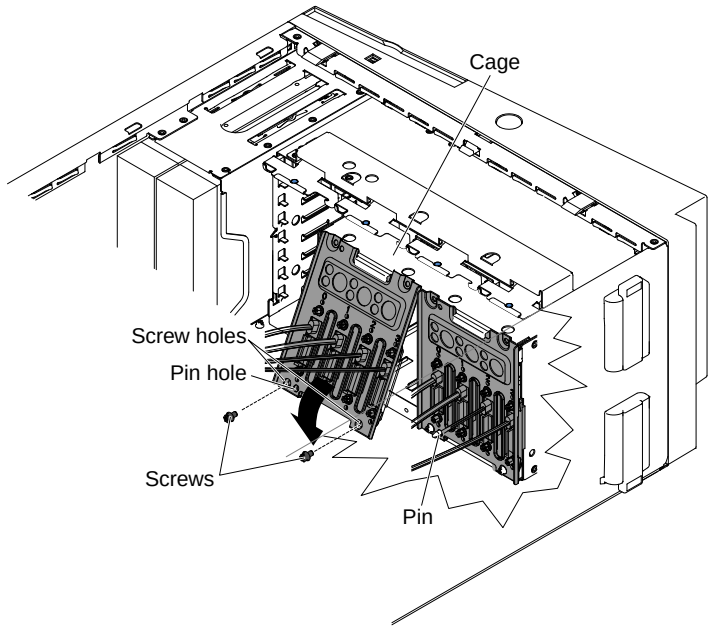



*Figure 171. Insert bottom tabs of the 3.5-inch HDD backplate assembly*

Step 6. Rotate the backplate assembly toward the drive cage until the guide pins on the drive cage insert securely to the holes on the backplate assembly.

Step 7. Fasten the screws on the backplate assembly.

Step 8. Reconnect the power, configuration, and signal cables to the 3.5-inch hard disk drive backplate assembly (see “Internal cable routing and connectors” on page 312).

Step 9. Install the 3.5-inch simple-swap hard disk drives that were removed from the hard disk drive cage (see “Installing a 3.5-inch simple-swap hard disk drive” on page 204).

Step 10. Install the fan cage assembly (see “Installing the fan cage assembly” on page 274).

Step 11. Install the air baffle (see “Installing the air baffle” on page 190).

Step 12. Close the bezel.

Step 13. Install and lock the left-side cover (see “Installing the left-side cover” on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

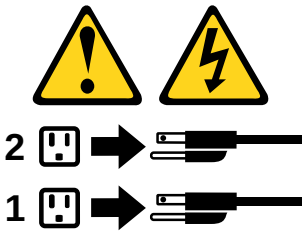
## Removing a hot-swap power supply

Use this information to remove a hot-swap power supply.

When you remove or install a hot-swap power supply, observe the following precautions.

**Statement 5**

**CAUTION:**
**The power control button on the device and the power switch on the power supply do not turn off the electrical current supplied to the device. The device also might have more than one power cord. To remove all electrical current from the device, ensure that all power cords are disconnected from the power source.**




**Statement 8**

**CAUTION:**
**Never remove the cover on a power supply or any part that has the following label attached.**

**Hazardous voltage, current, and energy levels are present inside any component that has this label attached. There are no serviceable parts inside these components. If you suspect a problem with one of these parts, contact a service technician.**

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

**Attention:** Static electricity that is released to internal server components when the server is powered-on might cause the server to halt, which might result in the loss of data. To avoid this potential problem, always use an electrostatic-discharge wrist strap or other grounding system when you work inside the server with the power on.

To remove a hot-swap power supply, complete the following steps.

**Notes:**

1. If only one hot-swap power supply is installed in the server, you must turn off the server before removing the power supply.
2. You must install the fan cage assembly before removing or installing the power supply.

Step 1. Disconnect the power cord from the connector on the back of the power supply that you are removing.

Step 2. Press the release latch on the hot-swap power supply and pull it out from the server.

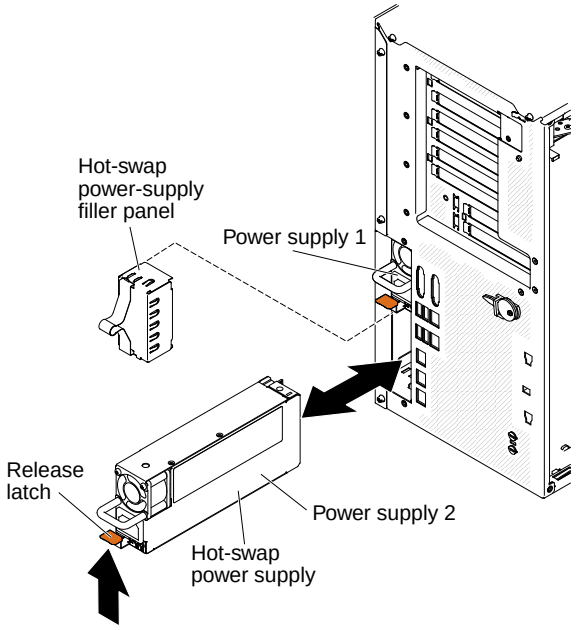



*Figure 172. Hot-swap power supply removal*

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing a hot-swap power supply

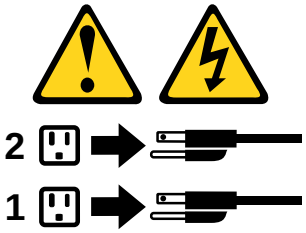
Use this information to install a hot-swap power supply.

The following notes describe the type of ac power supply that the server supports and other information that you must consider when you install a power supply:

- Make sure that the devices that you are installing are supported. For a list of supported optional devices for the server, see http://www.lenovo.com/ serverproven/.
- Before you install an additional power supply or replace a power supply with one of a different wattage, you may use the Lenovo Power Configurator utility to determine current system power consumption. For more information and to download the utility, go to http://www.ibm.com/systems/bladecenter/resources/powerconfig.html.
- The server comes with one hot-swap 12-volt output power supply that connects to power supply bay 1. The input voltage is 110 V ac or 220 V ac auto-sensing.
- Power supplies in the server must be with the same power rating or wattage to ensure that the server will operate correctly.
- Power supply 1 is the default/primary power supply. If power supply 1 fails, you must replace the power supply with the same wattage immediately.
- You can order an optional power supply for redundancy.
- These power supplies are designed for parallel operation. In the event of a power-supply failure, the redundant power supply continues to power the system. The server supports a maximum of two power supplies.

**Statement 5**

**CAUTION:**
**The power control button on the device and the power switch on the power supply do not turn off the electrical current supplied to the device. The device also might have more than one power cord. To remove all electrical current from the device, ensure that all power cords are disconnected from the power source.**




**Statement 8**

**CAUTION:**
**Never remove the cover on a power supply or any part that has the following label attached.**

**Hazardous voltage, current, and energy levels are present inside any component that has this label attached. There are no serviceable parts inside these components. If you suspect a problem with one of these parts, contact a service technician.**

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

**Attention:** Static electricity that is released to internal server components when the server is powered-on might cause the server to halt, which might result in the loss of data. To avoid this potential problem, always use an electrostatic-discharge wrist strap or other grounding system when you work inside the server with the power on.

To install a hot-swap power supply, complete the following steps.

**Note:** You must install the fan cage assembly before removing or installing the power supply.

Step 1. Touch the static-protective package that contains the hot-swap power supply to any unpainted metal surface on the server; then, remove the power supply from the package and place it on a static-protective surface.

Step 2. Remove the power-supply filler panel from the power bay, if one is installed.

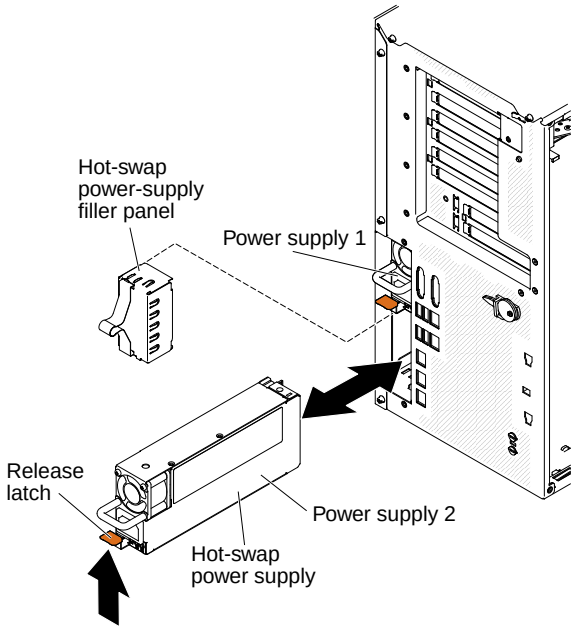



*Figure 173. Power-supply filler panel removal*

Step 3. Install the power supply and push it in until it locks into place.

**Notes:**

1. If only one hot-swap power supply is installed in the server, a power-supply filler must be installed in the empty power bay.
2. Do not mix power supplies with different wattage in the server.

Step 4. Route the power cord through the handle and cable tie if any, so that it does not accidentally become unplugged.

Step 5. Connect one end of the power cord for the new power supply into the connector on the back of the power supply; then, connect the other end of the power cord to a properly grounded electrical outlet.

**Note:** If the server has been turned off, you must wait approximately 3 minutes after you connect the server power cord to an electrical outlet before the power-control button becomes active.

Step 6. Make sure that the ac power LED and the dc power LED on the ac power supply are lit, indicating that the power supply is operating correctly. The two green LEDs are to the right of the power-cord connector.

Step 7. If you are replacing a power supply with one of a different wattage, apply the power information label provided with the new power supply over the existing power information label on the server.

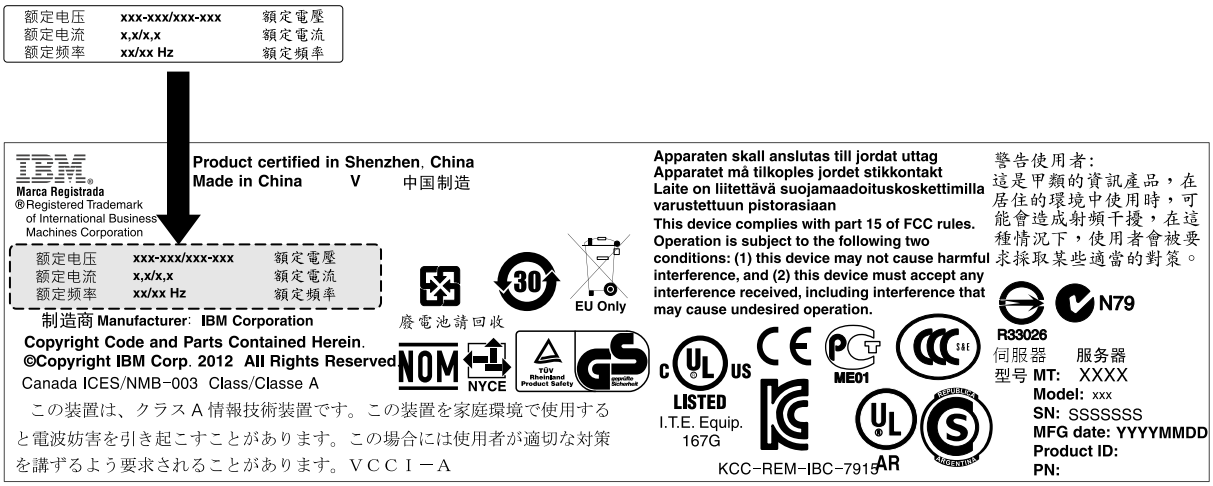



*Figure 174. Power supply replacement*

Step 8. If you are adding a power supply to the server, attach the redundant power information label that comes with this option on the server cover near the power supplies.

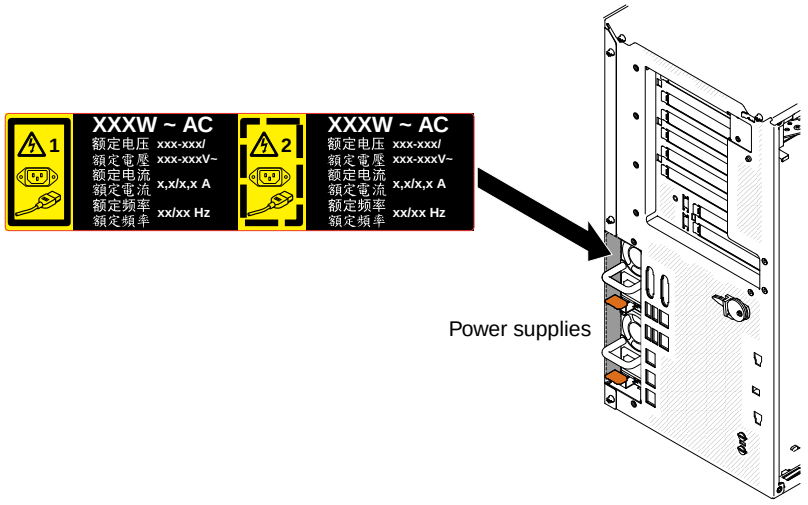



*Figure 175. Attach redundant power information*

## Removing the operator information panel assembly

Use this information to remove the operator information panel assembly.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove the operator information panel assembly, complete the following steps.

Step 1. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 2. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 3. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 4. Disconnect the drive cables from the back of the drive bay 1.

Step 5. Remove the DVD drive (see “Removing a DVD drive” on page 205) or the tape drive (see “Removing an optional tape drive” on page 208) which is installed in drive bay 1.

Step 6. Disconnect the operator information panel assembly cable from the system board (see “System-board internal connectors” on page 27).

Step 7. Locate the operator information panel assembly release latch just above the DVD drive.

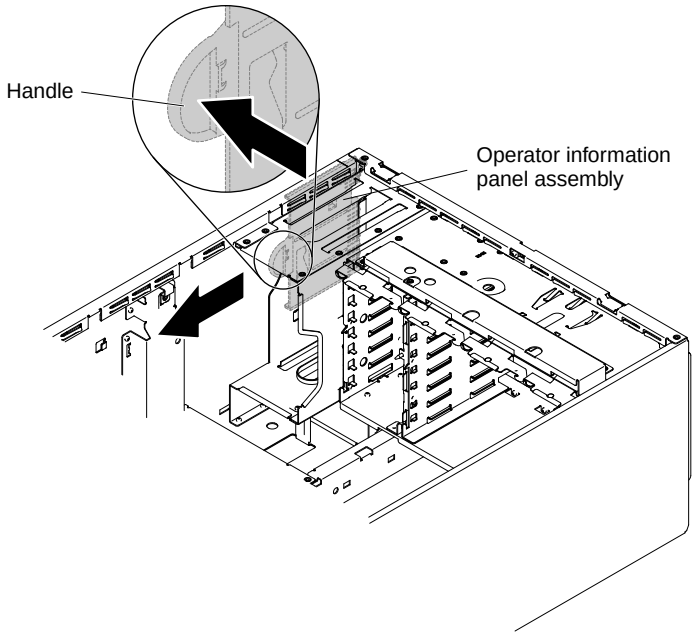



*Figure 176. Operator information panel removal*

Step 8. Push up on the release latch while you pull the operator information panel assembly toward the rear of the server; then, angle the back of the assembly toward the system board and remove the assembly from the server.

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing the operator information panel assembly

Use this information to install the operator information panel assembly.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install the operator information panel assembly, complete the following steps.

Step 1. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 2. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 3. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 4. Disconnect the drive cables from the back of the drive bay 1.

Step 5. Remove the DVD drive (see “Removing a DVD drive” on page 205) or the tape drive (see “Removing an optional tape drive” on page 208) which is installed in drive bay 1.

Step 6. Touch the static-protective package that contains the operator information panel assembly to any unpainted metal surface on the server; then, remove the assembly from the package.

Step 7. Angle the operator information panel assembly so that the edge of the assembly is in the guide slot.

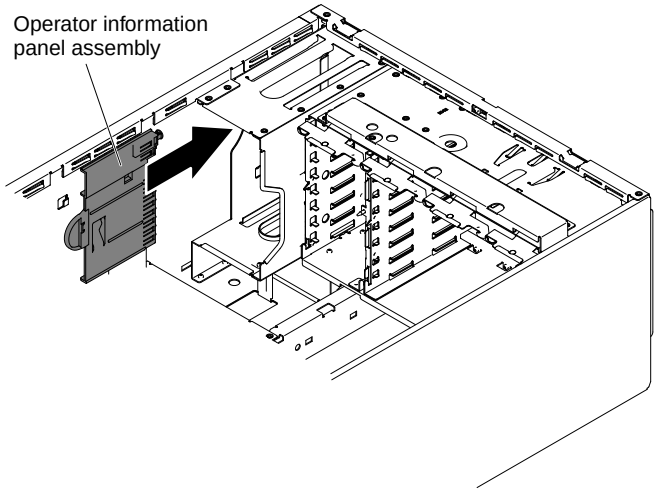



*Figure 177. Operator information panel installation*

Step 8. Slide the operator information panel assembly forward until the release latch clicks into place.

Step 9. Connect the operator information panel assembly cable to the system board (see “System-board internal connectors” on page 27 and “Internal cable routing and connectors” on page 312).

Step 10. Reinstall the DVD drive (see “Installing a DVD drive” on page 206 and “Installing an optional tape drive” on page 209) which you removed before in drive bay 1.

Step 11. Connect the drive cables to the back of the drive bay 1.

Step 12. Reinstall the fan cage assembly (see “Installing the fan cage assembly” on page 274).

Step 13. Reinstall the air baffle (see “Installing the air baffle” on page 190).

Step 14. Install and lock the left-side cover (see “Installing the left-side cover” on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

## Removing a memory module

Use this information to remove a memory module.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove a dual inline memory module (DIMM), complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the air baffle if installed (see “Removing the air baffle” on page 189).

Step 4. Locate the DIMM connectors on the system board (see “System-board internal connectors” on page 27).

**Attention:** To avoid breaking the retaining clips or damaging the DIMM connectors, handle the clips gently.

Step 5. Move the DIMM retaining clips on the side of the DIMM connector to the open position by pressing the retaining clips away from the center of the DIMM connector.

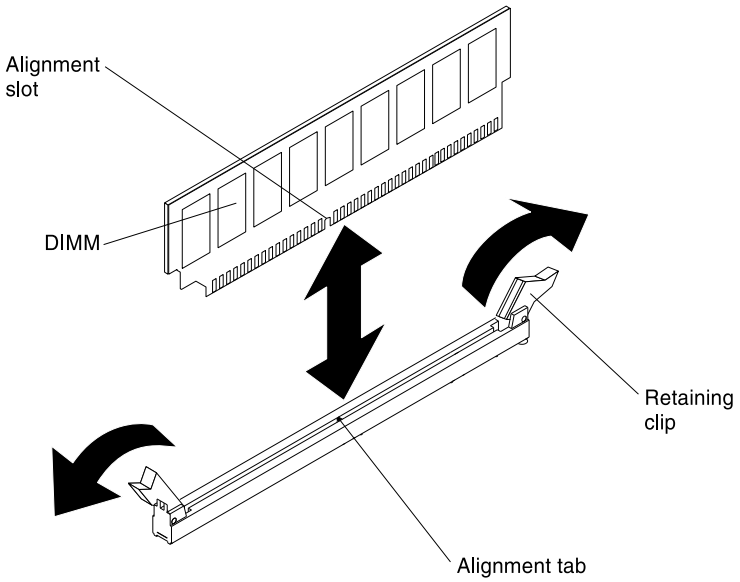



*Figure 178. Memory module removal*

Step 6. Using your fingers, lift the DIMM out of the DIMM connector.

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Memory module installation

The following notes describe the types of DIMMs that the server supports and other information that you must consider when you install DIMMs.

- When you install or remove DIMMs, the server configuration information changes. When you restart the server, the system displays a message that indicates that the memory configuration has changed.
- The server supports only industry-standard double-data-rate 3 (DDR3), 800, 1066, 1333, 1600, or 1866 MHz, PC3-6400, PC3-8500, PC3-10600, PC3-12800, or PC3-14900 registered or unbuffered, synchronous dynamic random-access memory (SDRAM) dual inline memory modules (DIMMs) with error correcting code (ECC). See http://www.lenovo.com/ serverproven/ for a list of supported memory modules for the server.
  - The specifications of a DDR3 DIMM are on a label on the DIMM, in the following format.
  - *ggggeRxff* PC3*v-wwwwwm-aa-bb-ccd*where:
    - *ggggg* is the total capacity of the DIMM (for example, 1GB, 2GB, or 4GB)
    - *eR* is the number of ranks
      - 1R = single-rank
      - 2R = dual-rank
      - 4R = quad-rank
    - *xff* is the device organization (bit width)

    - x4 = x4 organization (4 DQ lines per SDRAM)
    - x8 = x8 organization
    - x16 = x16 organization
  - *v* is the SDRAM and support component supply voltage (VDD)
    - Blank = 1.5 V specified
    - L = 1.35 V specified, 1.5 V operable

      **Note:** Values for these voltages are 'specified' which means the device characteristics such as timing are supported at this voltage. Values are 'operable' which means that the devices can be operated safely at this voltage. However, device characteristics such as timing may not be guaranteed. All devices must be 'tolerant' of the highest DDR3 nominal voltage of 1.5 V, meaning that they may not operate at 1.5 V but may be powered at that voltage without damage to the devices.
    - *wwwww* is the DIMM bandwidth, in MBps
      - 6400 = 6.40 GBps (DDR3-800 SDRAMs, 8-byte primary data bus)
      - 8500 = 8.53 GBps (DDR3-1066 SDRAMs, 8-byte primary data bus)
      - 10600 = 10.66 GBps (DDR3-1333 SDRAMs, 8-byte primary data bus)
      - 12800 = 12.80 GBps (DDR3-1600 SDRAMs, 8-byte primary data bus)
      - 14900 = 14.93 GBps (DDR3-1866 SDRAMs, 8-byte primary data bus)
    - *m* is the DIMM type
      - E = Unbuffered DIMM (UDIMM) with ECC (x72-bit module data bus)
      - L = Load Reduction DIMM (LRDIMM)
      - R = Registered DIMM (RDIMM)
      - U = Unbuffered DIMM with no ECC (x64-bit primary data bus)
    - *aa* is the CAS latency, in clocks at maximum operating frequency
    - *bb* is the JEDEC SPD Revision Encoding and Additions level
    - *cc* is the reference design file for the design of the DIMM
    - *d* is the revision number of the reference design of the DIMM

    **Note:** To determine the type of a DIMM, see the label on the DIMM. The information on the label is in the format xxxxx nRxxx PC3v-xxxxxx-xx-xx-xxx. The numeral in the sixth numerical position indicates whether the DIMM is single-rank (n=1), dual-rank (n=2), or quad-rank (n=4).
- The following rules apply to DDR3 RDIMM speed as it relates to the number of RDIMMs in a channel:
  - When you install 1 RDIMM per channel, the memory runs at 1866 MHz
  - When you install 2 RDIMMs per channel, the memory runs at 1600 MHz
  - When you install 3 RDIMMs per channel, the memory runs at 1066 MHz
  - All channels in a server run at the fastest common frequency
  - Do not install registered, unbuffered, and load reduction DIMMs in the same server
- The maximum memory speed is determined by the combination of the microprocessor, DIMM speed, DIMM type, Operating Modes in UEFI settings, and the number of DIMMs installed in each channel.
- In two-DIMM-per-channel configuration, a server with an Intel Xeon™ E5-2600 series microprocessor automatically operates with a maximum memory speed of up to 1600 MHz when the following condition is met:

  - Two 1.35 V single-rank, dual-rank, or quad-rank UDIMMs, RDIMMs or LRDIMMs are installed in the same channel. In the Setup utility, **Memory speed** is set to **Max performance** and **LV-DIMM power** is set to **Enhance performance** mode. The 1.35 V UDIMMs, RDIMMs or LRDIMMs will function at 1.5 V.
- The server supports a maximum of 16 dual-rank UDIMMs. The server supports up to two UDIMMs per channel.
- The server supports a maximum of 24 single-rank, dual-rank, or 16 quad-rank RDIMMs. The server does not support three quad-rank RDIMMs in the same channel.
- The following table shows an example of the maximum amount of memory that you can install using ranked DIMMs:

*Table 35. Maximum memory installation using ranked DIMMs*

| Number of DIMMs | DIMM type | DIMM size | Total memory |
|---|---|---|---|
| 16 | Single-rank UDIMMs | 2 GB | 32 GB |
| 24 | Single-rank RDIMMs | 2 GB | 48 GB |
| 24 | Single-rank RDIMMs | 4 GB | 96 GB |
| 24 | Dual-rank RDIMMs | 8 GB | 192 GB |
| 24 | Dual-rank RDIMMs | 16 GB | 384 GB |
| 16 | Quad-rank RDIMMs | 16 GB | 256 GB |
| 24 | Quad-rank LRDIMMs | 32 GB | 768 GB |

- The UDIMM option that is available for the server is 2 GB. The server supports a minimum of 2GB and a maximum of 32 GB of system memory using UDIMMs.
- The RDIMM options that are available for the server are 2 GB, 4 GB, 8 GB, and 16 GB. The server supports a minimum of 2 GB and a maximum of 384 GB of system memory using RDIMMs.
- The LRDIMM option that is available for the server is 32 GB. The server supports a minimum of 32 GB and a maximum of 768 GB of system memory using LRDIMMs.

  **Note:** The amount of usable memory is reduced depending on the system configuration. A certain amount of memory must be reserved for system resources. To view the total amount of installed memory and the amount of configured memory, run the Setup utility. For additional information, see “Configuring the server” on page 104.
- A minimum of one DIMM must be installed for each microprocessor. For example, you must install a minimum of two DIMMs if the server has two microprocessors installed. However, to improve system performance, install a minimum of four DIMMs for each microprocessor.
- DIMMs in the server must be the same type (RDIMM, UDIMM, or LRDIMM) to ensure that the server will operate correctly.
- When you install one quad-rank DIMM in a channel, install it in the DIMM connector furthest away from the microprocessor.
- For UDIMMs, DIMM connectors 3, 6, 7, and 10 for microprocessor 1 and DIMM connectors 15, 18, 19, and 22 for microprocessor 2 are not used.

**Note:** You can install DIMMs for microprocessor 2 as soon as you install microprocessor 2; you do not have to wait until all of the DIMM slots for microprocessor 1 are filled.

The following illustration shows the location of the DIMM connectors on they system board.

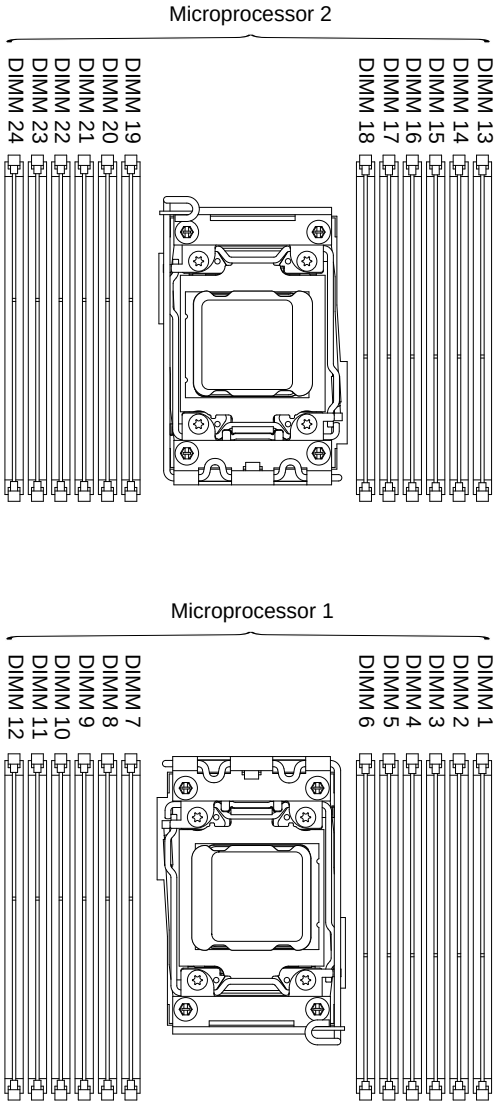



*Figure 179. The location of the DIMM connectors on the system board*

### DIMM installation sequence

Depending on the server model, the server may come with a minimum of one 2 GB or 4 GB DIMM installed in slot 1. When you install additional DIMMs, install them in the order shown in the following table to optimize system performance.

In general, all three channels on the memory interface for each microprocessor can be populated in any order and have no matching requirements.

*Table 36. Independent mode DIMM installation sequence*

| Number of installed microprocessor | DIMM connector population sequence |
|---|---|
| One microprocessor installed | 1, 4, 9, 12, 2, 5, 8, 11, 10, 7, 6, 3 |
| Two microprocessors installed | 1, 13, 4, 16, 9, 21, 12, 24, 2, 14, 5, 17, 8, 20, 11, 23, 22, 10, 19, 7, 18, 6, 15, 3 |

### Memory mirrored channel

Memory mirrored channel mode replicates and stores data on two pairs of DIMMs within two channels simultaneously. If a failure occurs, the memory controller switches from the primary pair of memory DIMMs to the backup pair of DIMMs.

You can enable memory mirrored in the Setup utility (see “Starting the Setup utility” on page 107).

When you use the memory mirrored channel feature, consider the following information:

- When you use memory mirrored channel, you must install a pair of DIMMs at a time. The two DIMMs in each pair must be identical in size, type, and rank (single, dual, or quad), and organization, but not in speed. The channels run at the speed of the slowest DIMM in any of the channels.
- The maximum available memory is reduced to half of the installed memory when memory mirrored is enabled. For example, if you install 64 GB of memory using RDIMMs, only 32 GB of addressable memory is available when you use memory mirrored channel.

The following diagram lists the DIMM connectors on each memory channel.

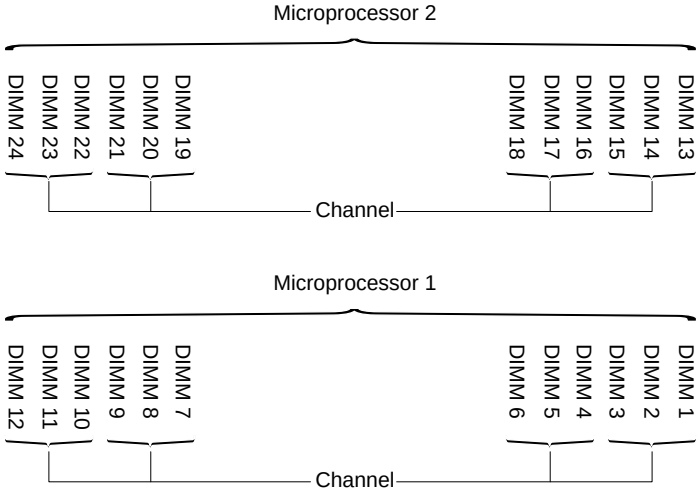



*Figure 180. Connectors on each memory channel*

**Note:** You can install DIMMs for microprocessor 2 as soon as you install microprocessor 2; you do not have to wait until all of the DIMM connectors for microprocessor 1 are filled.

The following table shows the installation sequence for memory mirrored mode:

*Table 37. Memory mirrored channel mode DIMM population sequence*

| Number of DIMMs | Number of installed microprocessor | DIMM connector |
|---|---|---|
| First pair of DIMMs | 1 | 1, 4 |
| Second pair of DIMMs | 1 | 9, 12 |
| Third pair of DIMMs | 1 | 2, 5 |
| Fourth pair of DIMMs | 1 | 8, 11 |
| Fifth pair of DIMMs | 1 | 7, 10 |
| Sixth pair of DIMMs | 1 | 3, 6 |

*Table 37. Memory mirrored channel mode DIMM population sequence (continued)*

| Number of DIMMs | Number of installed microprocessor | DIMM connector |
|---|---|---|
| Seventh pair of DIMMs | 2 | 13, 16 |
| Eighth pair of DIMMs | 2 | 21, 24 |
| Ninth pair of DIMMs | 2 | 14, 17 |
| Tenth pair of DIMMs | 2 | 20, 23 |
| Eleventh pair of DIMMs | 2 | 19, 22 |
| Twelfth pair of DIMMs | 2 | 15, 18 |
| **Note:** DIMM connectors 3, 6, 7, 10, 15, 18, 19, and 22 are not used in memory mirrored mode when UDIMMs are installed in the server. | | |

When you install or remove DIMMs, the server configuration information changes. When you restart the server, the system displays a message that indicates that the memory configuration has changed.

### Memory rank sparing

Sparing enables a failing rank to be replaced by ranks installed in an unoccupied space. An unused spare rank on the channel can be used to copy the contents of a failing rank on that channel.

You can enable rank sparing memory in the Setup utility (see “Starting the Setup utility” on page 107).

The following diagram lists the DIMM connectors on each memory channel.

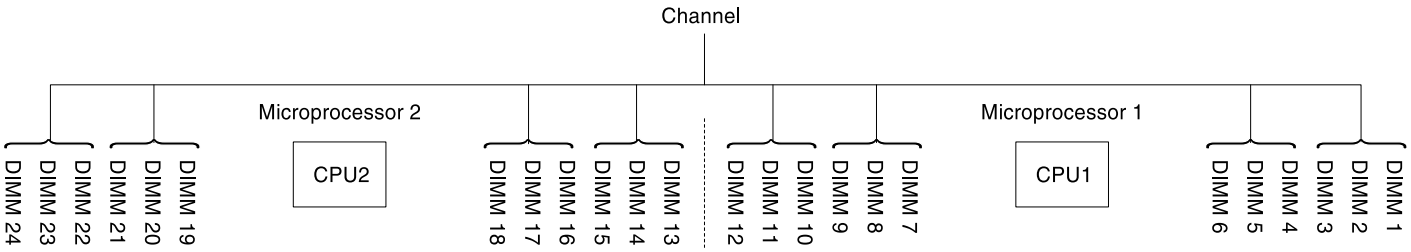



*Figure 181. Connectors on each memory channel*

**Note:** You can install DIMMs for the microprocessor 2 once the microprocessor 2 is installed. You do not need to wait until all of the DIMM connectors for microprocessor 1 are filled.

The following table shows the installation sequence for memory rank sparing mode:

*Table 38. Memory rank sparing mode DIMM population sequence*

| Number of DIMMs | Number of installed microprocessor | DIMM connector |
|---|---|---|
| First pair of DIMMs | 1 | 1, 2 |
| Second pair of DIMMs | 1 | 4, 5 |
| Third pair of DIMMs | 1 | 8, 9 |
| Fourth pair of DIMMs | 1 | 11, 12 |
| Fifth pair of DIMMs | 1 | 7, 10 |
| Sixth pair of DIMMs | 1 | 3, 6 |

*Table 38. Memory rank sparing mode DIMM population sequence (continued)*

| Number of DIMMs | Number of installed microprocessor | DIMM connector |
|---|---|---|
| Seventh pair of DIMMs | 2 | 13, 14 |
| Eighth pair of DIMMs | 2 | 16, 17 |
| Ninth pair of DIMMs | 2 | 20, 21 |
| Tenth pair of DIMMs | 2 | 23, 24 |
| Eleventh pair of DIMMs | 2 | 19, 22 |
| Twelfth pair of DIMMs | 2 | 15, 18 |
| **Note:** DIMM connectors 3, 6, 7, 10, 15, 18, 19, and 22 are not used in memory rank sparing mode when UDIMMs are installed in the server. | | |

### Installing a DIMM

Use this information to install a DIMM.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install a DIMM, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the air baffle if installed (see “Removing the air baffle” on page 189).

Step 4. Locate the DIMM connectors on the system board (see “System-board internal connectors” on page 27). Determine the connectors into which you will install the DIMMs.

Step 5. Open the retaining clip on each end of the DIMM connector.

**Attention:** To avoid breaking the retaining clips or damaging the DIMM connectors, open and close the clips gently.

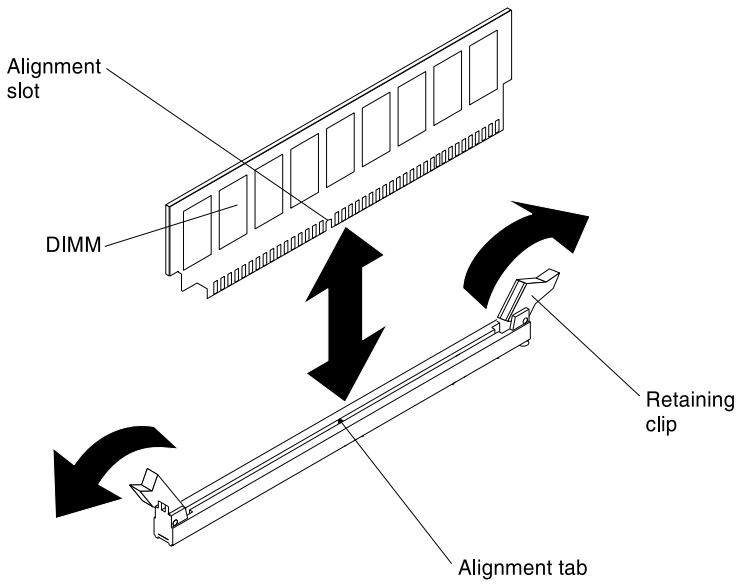



*Figure 182. DIMM installation*

Step 6. Touch the static-protective package that contains the DIMM to any unpainted metal surface on the outside of the server. Then, remove the DIMM from the package.

Step 7. Turn the DIMM so that the alignment slot align correctly with the alignment tab.

Step 8. Insert the DIMM into the connector by aligning the edges of the DIMM with the slots at the ends of the DIMM connector (see “System-board internal connectors” on page 27) for the locations of the DIMM connectors).

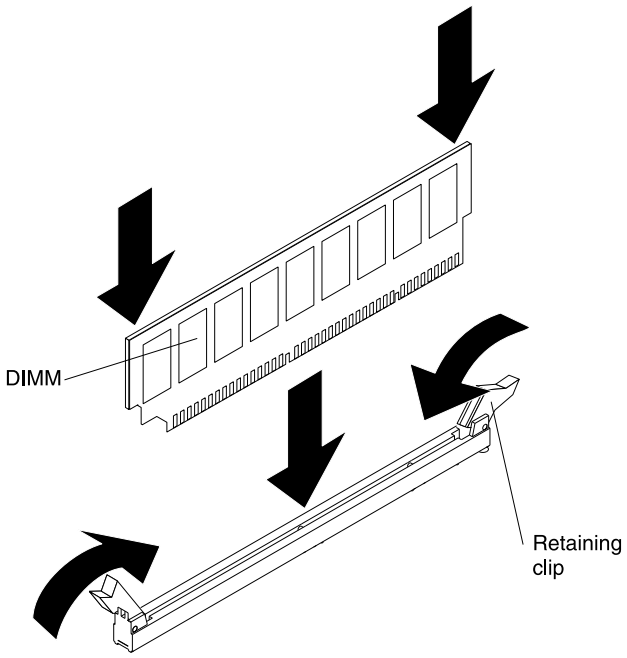



*Figure 183. Insert DIMM into connector*

Step 9. Firmly press the DIMM straight down into the connector by applying pressure on both ends of the DIMM simultaneously. The retaining clips snap into the locked position when the DIMM is firmly seated in the connector.

**Note:** If there is a gap between the DIMM and the retaining clips, the DIMM has not been correctly inserted; open the retaining clips, remove the DIMM, and then reinsert it.

Step 10. Reinstall the air baffle if it was removed before (see “Installing the air baffle” on page 190).

Step 11. Reinstall and lock the left-side cover (see “Installing the left-side cover” on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

## Removing a USB embedded hypervisor flash device

Use this information to remove a USB embedded hypervisor flash device.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove a hypervisor flash device, complete the following steps.

Step 1. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 2. Unlock the retention latch by pushing it down toward the system board.

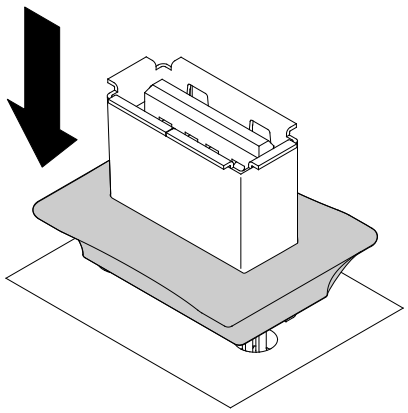


*Figure 184. Unlock retention latch*

Step 3. Grasp the flash device and pull to remove it from the connector.

Step 4. Return the retention latch to the locked position by pulling it away from the system board.

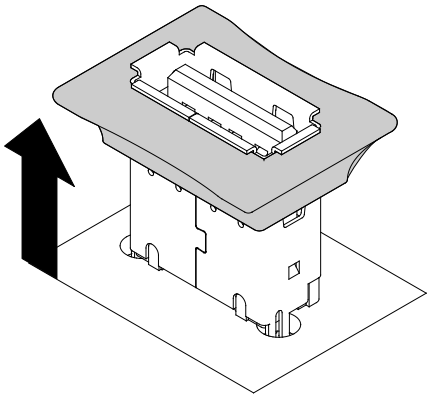


*Figure 185. Return retention latch to locked position*

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing a USB embedded hypervisor flash device

Use this information to install a USB embedded hypervisor flash device.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install a hypervisor flash device, complete the following steps.

Step 1. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 2. Unlock the retention latch by pushing it down toward the system board.

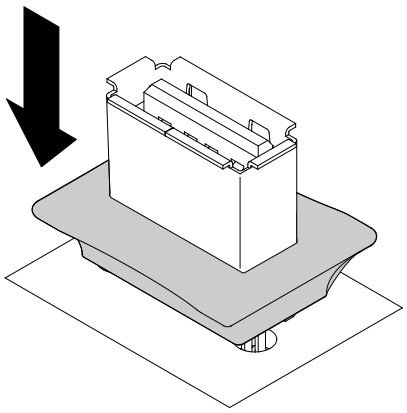


*Figure 186. Unlock retention latch*

Step 3. Align the flash device with the USB connector on the system board and push it into the USB connector until it is firmly seated.

Step 4. Return the retention latch to the locked position by pulling it away from the system board.

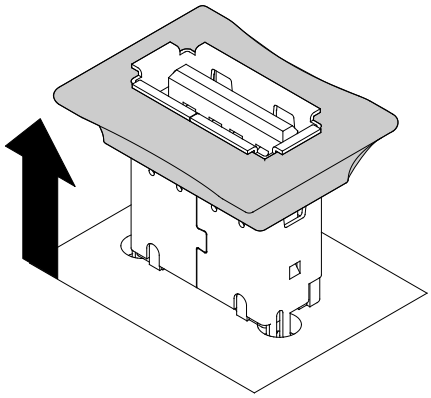


*Figure 187. Return retention latch to locked position*

Step 5. Reconnect the power cord and any cables that you removed.

Step 6. Reinstall the left-side cover (see “Installing the left-side cover” on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

## Removing the fan cage assembly

Use this information to remove the fan cage assembly from the server.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove the fan cage assembly, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 4. Remove all long cards from the system board.

Step 5. Disconnect the fan cage power cable from the system board (see “Internal cable routing and connectors” on page 312).

Step 6. Loosen the thumb screw on the fan cage release latch.

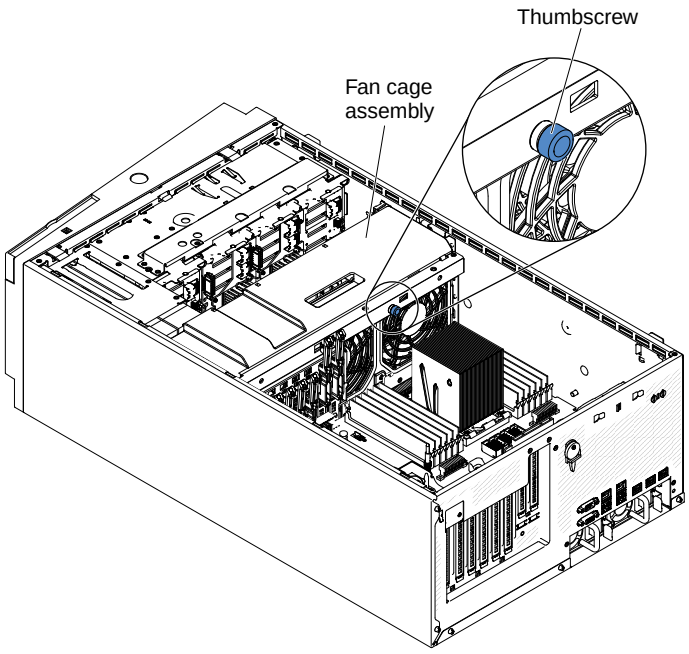



*Figure 188. Loosen thumb screw on fan cage*

Step 7. Rotate the fan cage release latch to the open position. The fan cage will lift up slightly when the release latch is fully open.

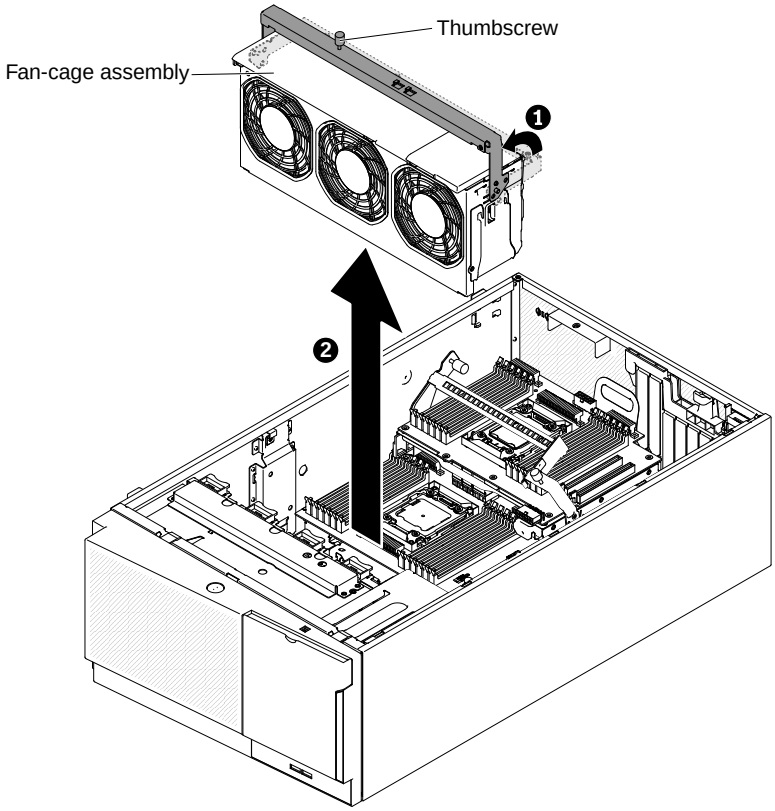



*Figure 189. Fan cage removal*

Step 8. Grasp the fan cage assembly and lift it out of the server.

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing the fan cage assembly

Use this information to install the fan cage assembly from the server.

**Attention:** Make sure that all wires and cables inside the server are routed correctly before you install the fan cage assembly. Wiring that is not properly routed might be damaged or might prevent the fan cage assembly from seating properly in the server.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install the fan cage assembly, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Align the guides on the fan cage with the release latch to the open position on each side.

Step 4. Push the fan cage assembly into the server.

**Note:** Make sure that the fan cage is fully seated.

Step 5. Rotate the fan cage release latch to the close position. The fan cage will be fully seated when it is secured.

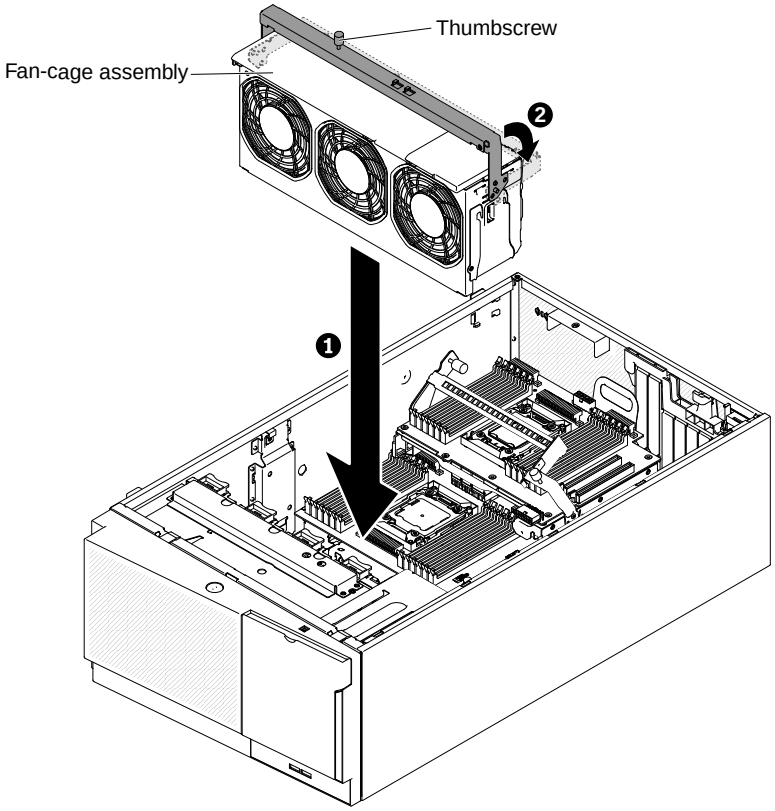



*Figure 190. Fan cage installation*

Step 6. Fasten the thumb screw on the fan cage release latch.

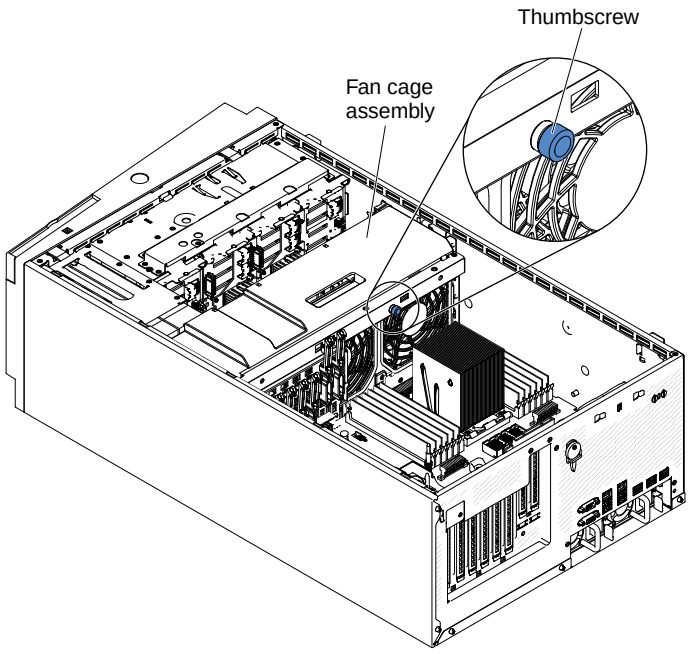



*Figure 191. Fasten thumb screw on fan cage*

Step 7. Connect the fan cage assembly power cable to the system board (see “Internal cable routing and connectors” on page 312).

Step 8. Install the air baffle (see “Installing the air baffle” on page 190).

Step 9. Install and lock the left-side cover (see “Installing the left-side cover” on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

## Removing the left-side cover/power cut-off switch assembly

Use this information to remove the left-side cover/power cut-off switch assembly.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove the left-side cover/power cut-off switch assembly, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the cable from the system board (see “Internal cable routing and connectors” on page 312).

Step 4. Remove the screw that secures the power cut-off switch assembly from the chassis wall.

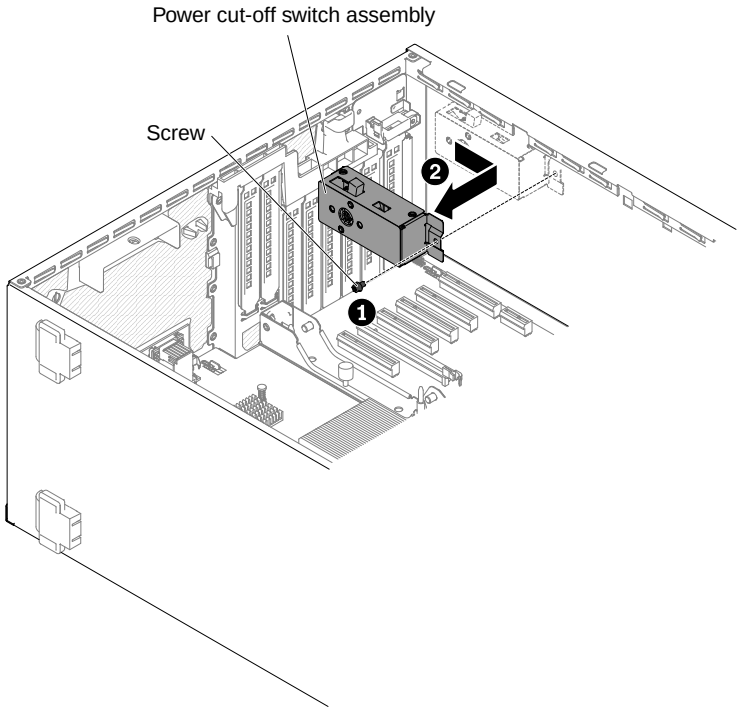



*Figure 192. Remove screw that secures the power cut-off switch assembly*

Step 5. Pull the switch assembly toward the front of the server to release it from the server.

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing the left-side cover/power cut-off switch assembly

Use this information to install the left-side cover/power cut-off switch assembly.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install the left-side cover/power cut-off switch assembly, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Touch the static-protective package that contains the power cut-off switch assembly to any unpainted metal surface on the server; then, remove the power cut-off switch assembly from the package.

Step 4. Align the power cut-off switch assembly with the hole on the chassis wall and push the assembly toward the rear of the server.

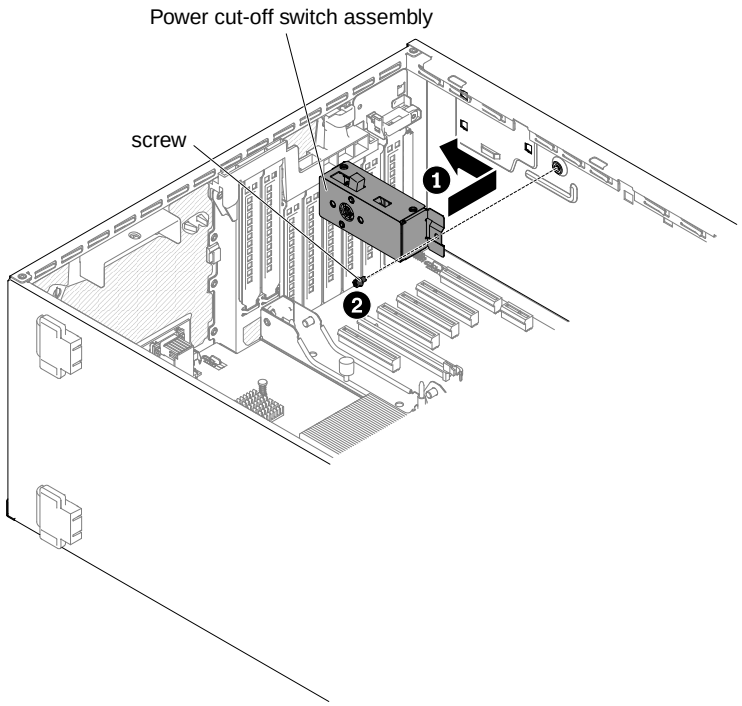



*Figure 193. Align the power cut-off switch assembly*

Step 5. Install the screw that secures the power cut-off switch assembly on the chassis wall.

Step 6. Connect the cable along the chassis to the system board (see “Internal cable routing and connectors” on page 312).

Step 7. Install and lock the left-side cover (see “Installing the left-side cover” on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

# Removing and replacing Tier 2 CRUs

You may install a Tier 2 CRU yourself or request Lenovo to install it, at no additional charge, under the type of warranty service that is designated for your server.

The illustrations in this document might differ slightly from your hardware.

## Removing the power paddle card

Use this information to remove the power paddle card.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove the power paddle card, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 4. Remove all long cards from the system board.

Step 5. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272),

Step 6. Disconnect all connected cables from the power paddle card cage assembly.

Step 7. Remove the power supplies (see “Removing a hot-swap power supply” on page 254).

Step 8. Rotate the power supply air baffle up.

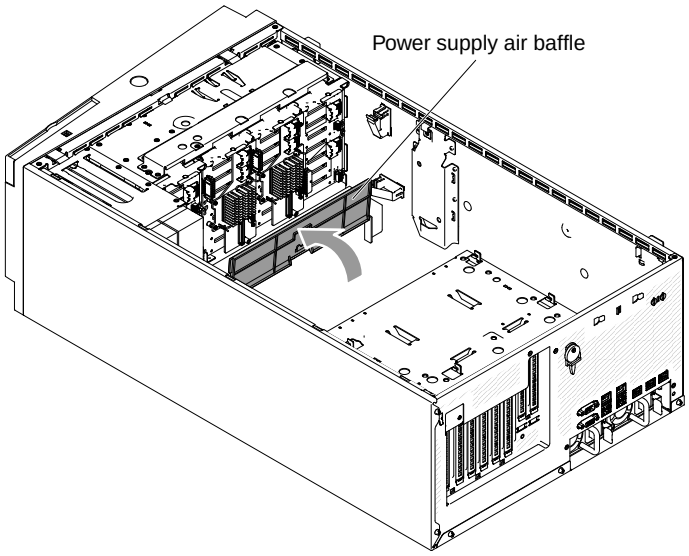



*Figure 194. Rotate the air baffle up*

Step 9. Grasp on the handle of paddle card cage assembly and pull it out of the server.

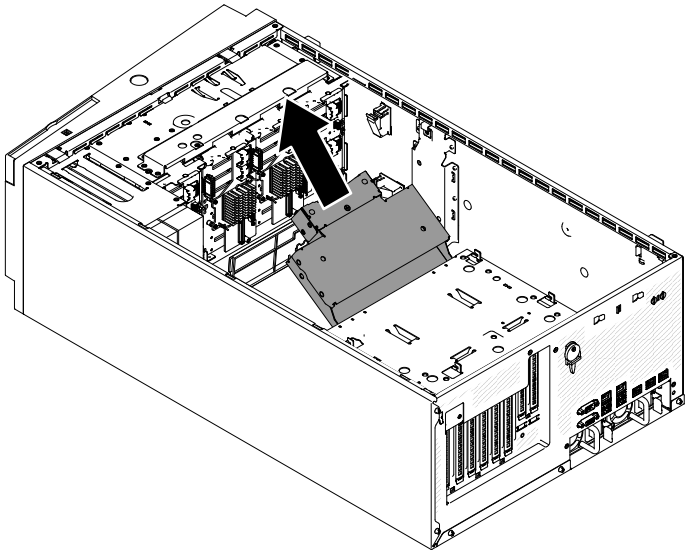


*Figure 195. Power paddle card removal*

Step 10. Loosen the screw to release the power paddle card top cover.

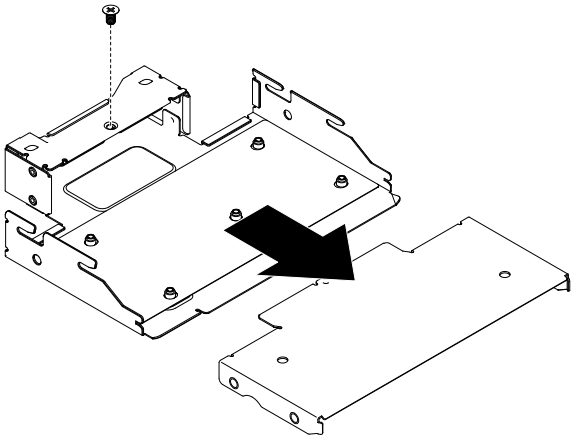


*Figure 196. Loosen screw to release cover*

Step 11. Loosen the five screws to release the power paddle card.

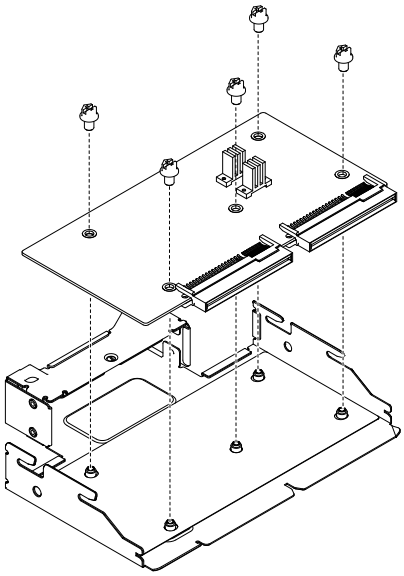


*Figure 197. Release the power paddle card cover*

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing the power paddle card

Use this information to install the power paddle card.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install the power paddle card, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 4. Remove all long cards from the system board.

Step 5. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272),

Step 6. Align the power paddle card with the cage assembly. Then, fasten the five screws to secure the power paddle card.

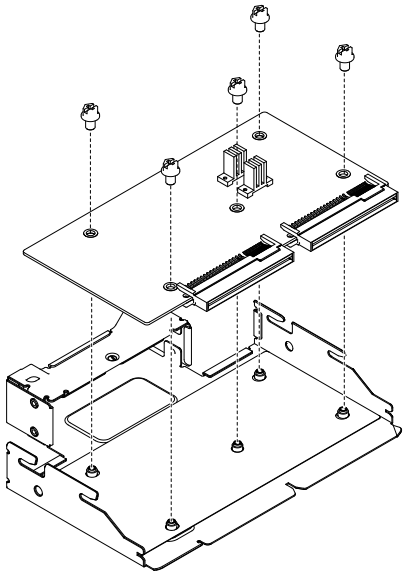


*Figure 198. Align power paddle card with cage assembly*

Step 7. Align the power paddle card top cover with the cage assembly. Then, fasten the screw to secure the power paddle card top cover.

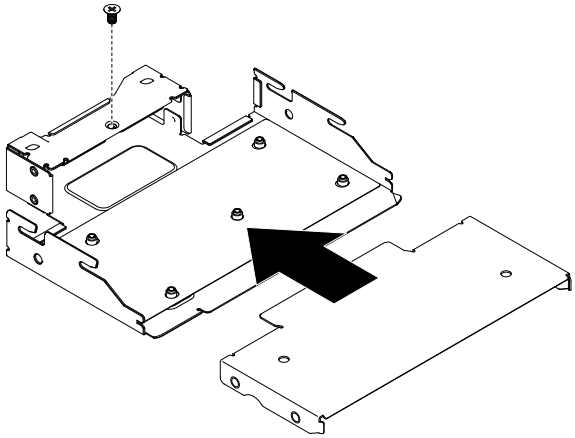


*Figure 199. Align power paddle card cover with cage assembly*

Step 8. Rotate the power supply air baffle up.

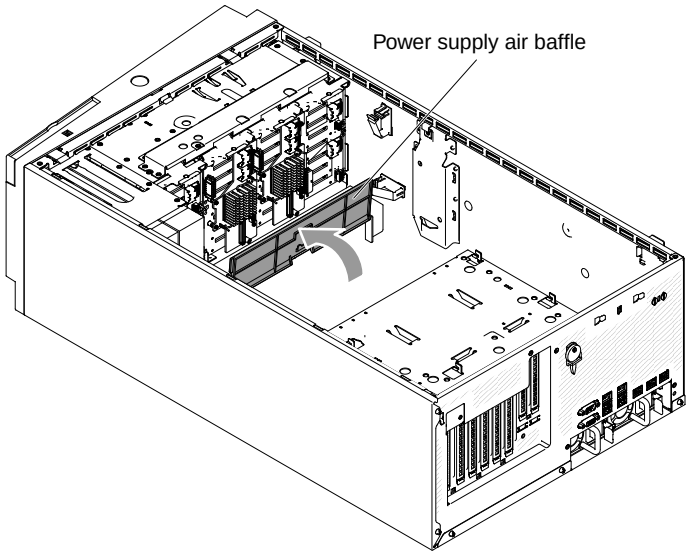



*Figure 200. Rotate the air baffle up*

Step 9. Push the power paddle card cage assembly into the server till it clicks into place.

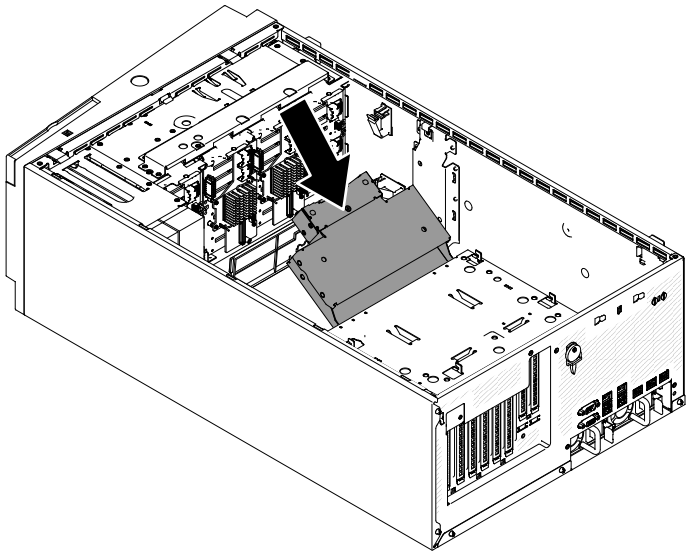


*Figure 201. Power paddle card installation*

Step 10. Reconnect the internal power cables to the power paddle card cage assembly.

Step 11. Reinstall the fan cage assembly (see “Installing the fan cage assembly” on page 274).

Step 12. Reinstall the power supplies (see “Installing a hot-swap power supply” on page 255).

Step 13. Reinstall the air baffle (see “Installing the air baffle” on page 190).

Step 14. Install and lock the left-side cover (see “Installing the left-side cover” on page 185).

Step 15. Stand the server back up in its vertical position.

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

## Removing a microprocessor and heat sink

Use this information to remove a microprocessor and heat sink.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

The following notes describe the type of microprocessor that the server supports and other information that you must consider when you install a microprocessor and heat sink:

- Microprocessors are to be installed only by trained technicians.

  **Important:** Always use the microprocessor installation tool to install a microprocessor. Failing to use the microprocessor installation tool may damage the microprocessor sockets on the system board. Any damage to the microprocessor sockets may require replacing the system board.
- Do not allow the thermal grease on the microprocessor and heat sink to come in contact with anything. Contact with any surface can compromise the thermal grease and the microprocessor socket.
- Dropping the microprocessor during installation or removal can damage the contacts.
- Do not touch the microprocessor contacts; handle the microprocessor by the edges only. Contaminants on the microprocessor contacts, such as oil from your skin, can cause connection failures between the contacts and the socket.
- Do not remove the first microprocessor from the system board to install the second microprocessor.
- To order an additional optional microprocessor, contact your Lenovo sales representative or Lenovo reseller.

**Note:** Be sure to use the installation tool that comes with your microprocessor installation tool assembly. The tools are similar in function and design, however Tool A has one setting for installing one size of microprocessor, and supports the following families of microprocessors: E5-26xx, E5-46xx. Installation Tool B has two settings for installing two different sizes of microprocessors. The settings that are marked on Tool B are “L” for smaller low core microprocessors, and “H” for larger high core microprocessors. Installation Tool B supports the following families of microprocessors: E5-26xx, E5-46xx, E5-26xx v2, E5-46xx v2.

Microprocessor Installation Tools A and B are shown in the following illustration.

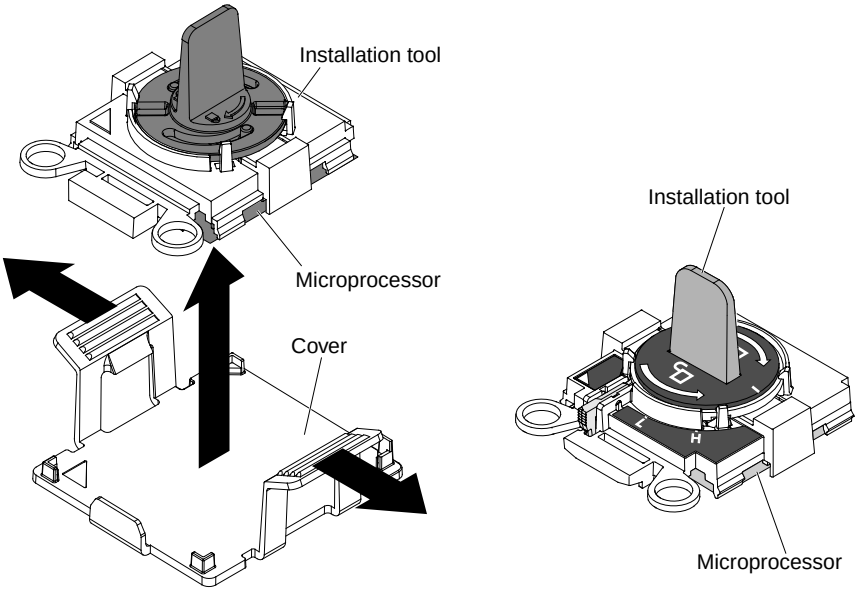



*Figure 202. Microprocessor installation tools*

To remove a microprocessor and heat sink, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 4. Remove the heat sink:

**Attention:** Do not touch the thermal material on the bottom of the heat sink. Touching the thermal material will contaminate it. If the thermal material on the microprocessor or heat sink becomes contaminated, you must wipe off the contaminated thermal material on the microprocessor or heat sink with the alcohol wipes and reapply clean thermal grease to the heat sink.

a. Open the heat sink retention module release lever to the fully open position.

b. Lift the heat sink out of the server. After removal, place the heat sink (with the thermal grease side up) on a clean, flat surface.

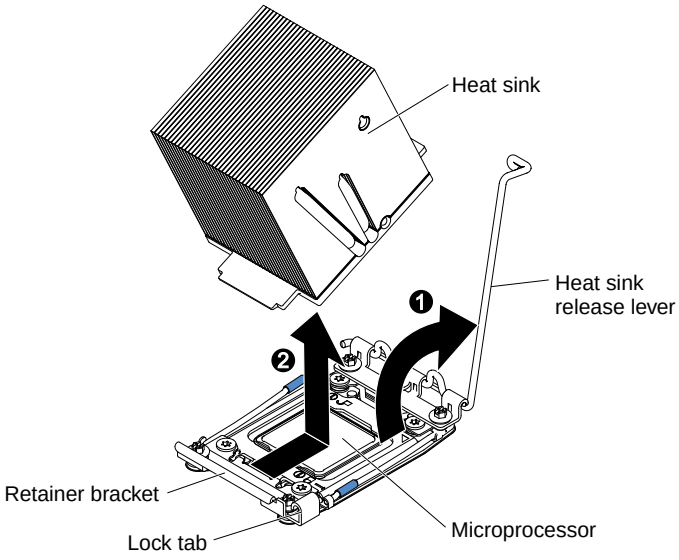



*Figure 203. Lift the heat sink out of the server*

Step 5. Open the microprocessor socket release levers and retainer:

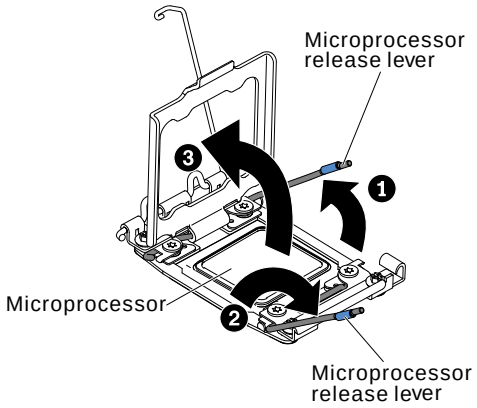



*Figure 204. Open CPU socket*

a. Identify which release lever is labeled as the first release lever to open and open it.
b. Open the second release lever on the microprocessor socket.
c. Open the microprocessor retainer.

**Attention:** Do not touch the microprocessor contacts. Contaminants on the microprocessor contacts, such as oil from your skin, can cause connection failures between the contacts and the socket.

Step 6. Install the microprocessor on the microprocessor installation tool:

**Note:** If you are replacing a microprocessor, use the empty installation tool that comes with the new microprocessor to remove the microprocessor.

a. Select the empty installation tool and ensure that the handle is in the open position. If the installation tool handle is not in the open position, use the following instructions for your installation tool:

- If using Installation Tool A, twist the microprocessor installation tool handle counterclockwise to the open position.

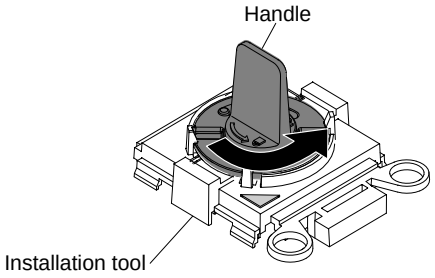



*Figure 205. Installation tool A handle adjustment*

- If using Installation Tool B, 1 lift the interlock latch and hold it up while you 2 twist the microprocessor installation tool handle counterclockwise to the open position, and then release the interlock latch. The following illustration of the installation tool shows the location of the interlock latch and counterclockwise rotation of the handle before loading the microprocessor.

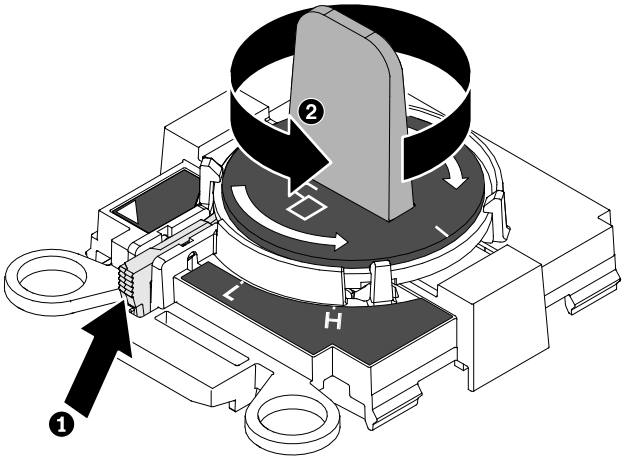



*Figure 206. Installation tool B handle adjustment*

b. Align the installation tool with the alignment pins on the microprocessor socket and lower the tool on the microprocessor. The installation tool rests flush on the socket only if aligned correctly.

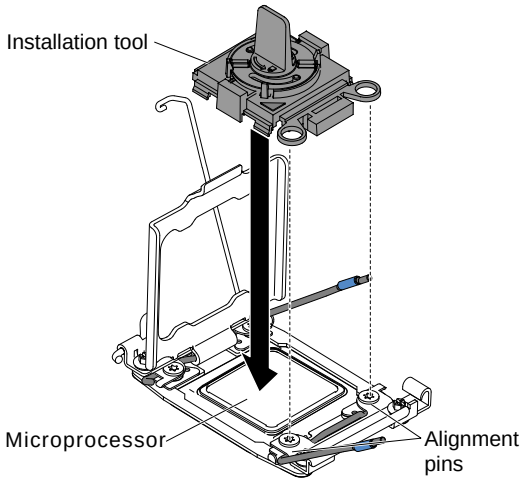



*Figure 207. Align the installation tool*

c. Twist the handle on the installation tool clockwise.

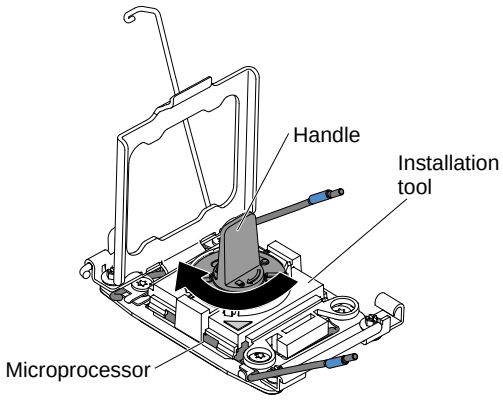



*Figure 208. Twist the handle clockwise*

d. Lift the microprocessor out of the socket.

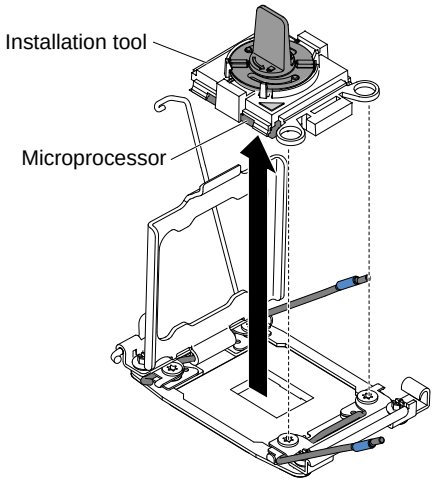



*Figure 209. Lift microprocessor out of the socket*

Step 7. If you do not intend to install a microprocessor on the socket, install the socket cover that you removed before on the microprocessor socket.

**Attention:** The pins on the socket are fragile. Any damage to the pins may require replacing the system board.

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing a microprocessor and heat sink

Use this information to install a microprocessor and heat sink.

The following notes describe the type of microprocessor that the server supports and other information that you must consider when you install a microprocessor and heat sink:

- Microprocessors are to be installed only by trained technicians.

  **Important:** Always use the microprocessor installation tool to install a microprocessor. Failing to use the microprocessor installation tool may damage the microprocessor sockets on the system board. Any damage to the microprocessor sockets may require replacing the system board.
- The server supports certain Intel Xeon scalable multi-core microprocessors, which are designed for the LGA 2011 socket. These microprocessors are 64-bit dual-core or quad-core microprocessors with an integrated memory controller, quick-path interconnect, and shared last cache. See http://www.lenovo.com/ serverproven/ for a list of supported microprocessors.
- Do not mix microprocessors with different cores in the same server.
- The server supports up to two microprocessors when the microprocessor 2 expansion board is installed.

  **Note:** Microprocessor 2 expansion board is supported when the second microprocessor is installed.
- When two microprocessors are installed, the air baffle and fan 2 must be installed to provide proper system cooling.
- When you install the second microprocessor, you must also install additional memory, the air baffle, and fan 2. See “Memory module installation” on page 262 for details about the installation sequence.

- To ensure proper server operation when you install an additional microprocessor, use microprocessors that have the same QuickPath Interconnect (QPI) link speed, integrated memory controller frequency, core frequency, power segment, internal cache size, and type.
- Mixing microprocessors of different stepping levels within the same server model is supported.
- When mixing microprocessors with different stepping levels within the same server model, you do not have to install the microprocessor with lowest stepping level and features in microprocessor socket 1.
- Read the documentation that comes with the microprocessor to determine whether you have to update the server firmware. To download the latest level of server firmware and other code updates for the server, go to http://www.ibm.com/support/ fixcentral.
- The microprocessor speeds are automatically set for this server; therefore, you do not have to set any microprocessor frequency-selection jumpers or switches.
- If the thermal-grease protective cover (for example, a plastic cap or tape liner) is removed from the heat sink, do not touch the thermal grease on the bottom of the heat sink or set down the heat sink. For more information about applying or working with thermal grease, see “Thermal grease” on page 91.

  **Note:** Removing the heat sink from the microprocessor destroys the even distribution of the thermal grease and requires replacing the thermal grease.
- Do not remove the first microprocessor from the system board to install the second microprocessor.
- To order an additional optional microprocessor, contact your Lenovo sales representative or Lenovo reseller.

There are two types of microprocessor installation tools. The tools are similar in function and design, however Tool A has one setting for installing one size of microprocessor, and supports the following families of microprocessors: E5-26xx, E5-46xx. Installation Tool B has two settings for installing two different sizes of microprocessors. The settings that are marked on Tool B are “L” for smaller low core microprocessors, and “H” for larger high core microprocessors. Installation Tool B supports the following families of microprocessors: E5-26xx, E5-46xx, E5-26xx v2, E5-46xx v2.

Microprocessor Installation Tools A and B are shown in the following illustration.

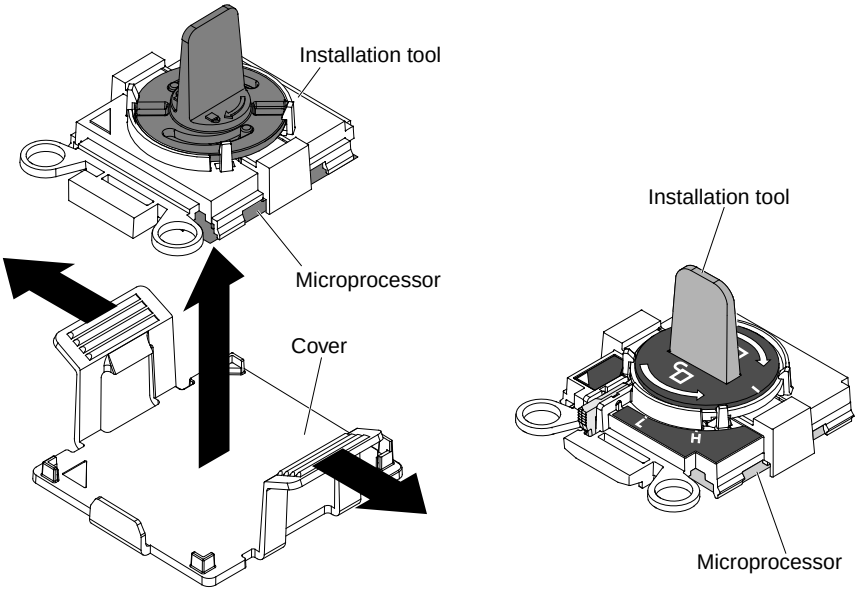



*Figure 210. Microprocessor installation tools*

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install a microprocessor and heat sink, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 4. Rotate the heat sink retention module release lever to the open position.

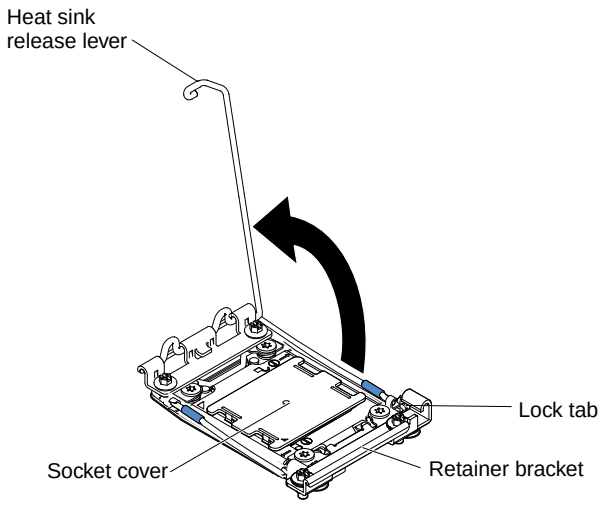



*Figure 211. Rotate heat sink*

Step 5. Open the microprocessor socket release levers and retainer:

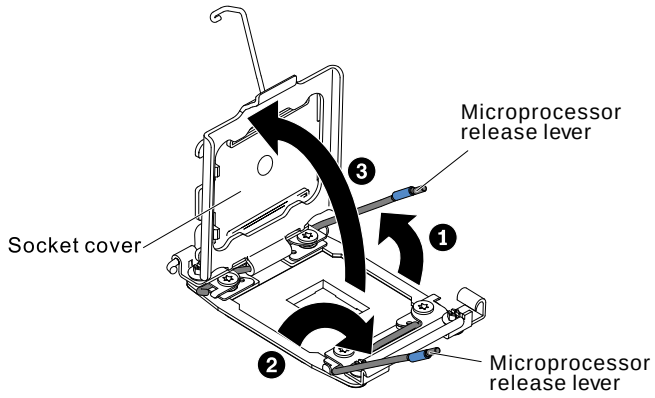



*Figure 212. Open the microprocessor socket release lever*

a. Identify which release lever is labeled as the first release lever to open and open it.
b. Open the second release lever on the microprocessor socket.
c. Open the microprocessor retainer.

**Attention:** Do not touch the connectors on the microprocessor and the microprocessor socket.

Step 6. Install the microprocessor on the microprocessor socket:

a. Touch the static-protective package that contains the new microprocessor to any unpainted on the chassis or any unpainted metal surface on any other grounded rack component; then, carefully remove the microprocessor from the package.
b. Release the sides of the cover and remove the cover from the installation tool. The microprocessor is preinstalled on the installation tool.

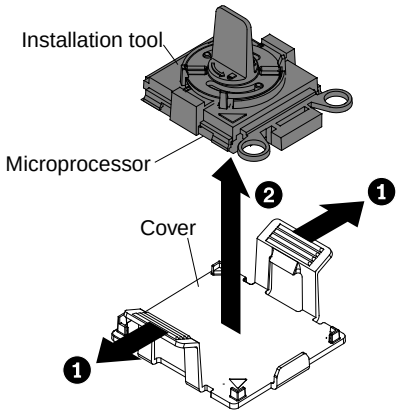



*Figure 213. Release the sides of the cover to remove microprocessor*

**Note:** Do not touch the microprocessor contacts. Contaminants on the microprocessor contacts, such as oil from your skin, can cause connection failures between the contacts and the socket.

c. Align the installation tool with the microprocessor socket. The installation tool rests flush on the socket only if properly aligned.

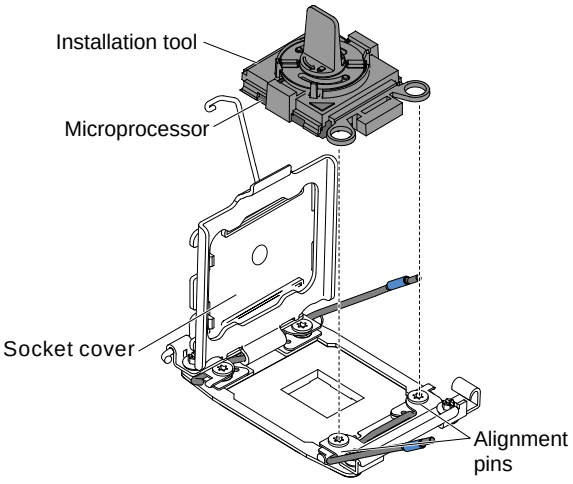



*Figure 214. Align the installation tool with the microprocessor socket*

d. Install the microprocessor using the following instructions for your installation tool.

- If using Installation Tool A, twist the handle on the microprocessor tool assembly counterclockwise to the open position to insert the microprocessor into the socket, and lift the installation tool out of the socket.
- If using Installation Tool B, twist the handle of the installation tool assembly counterclockwise until the microprocessor is inserted into the socket, and lift the installation tool out of the socket. The following illustration shows the tool handle in the open position.

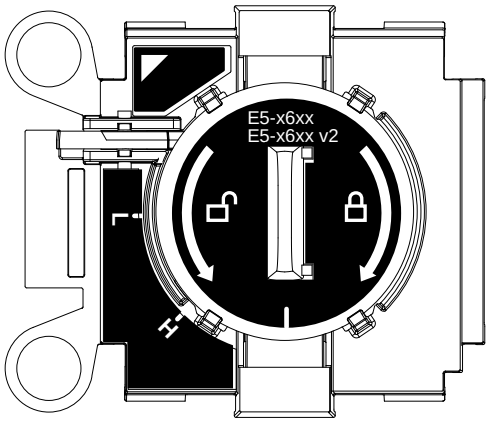



*Figure 215. Installation Tool B*

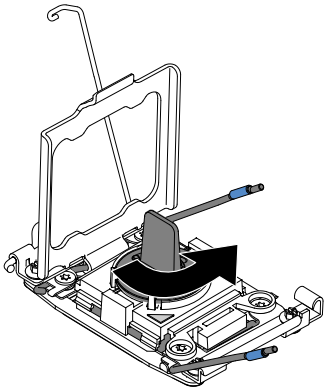


*Figure 216. Installation tool handle adjustment*

**Attention:**

- Do not press the microprocessor into the socket.
- Make sure that the microprocessor is oriented and aligned correctly in the socket before you try to close the microprocessor retainer.
- Do not touch the thermal material on the bottom of the heat sink or on top of the microprocessor. Touching the thermal material will contaminate it.

Step 7. Remove the microprocessor socket dust cover, tape, or label from the surface of the microprocessor socket, if one is present. Store the socket cover in a safe place.

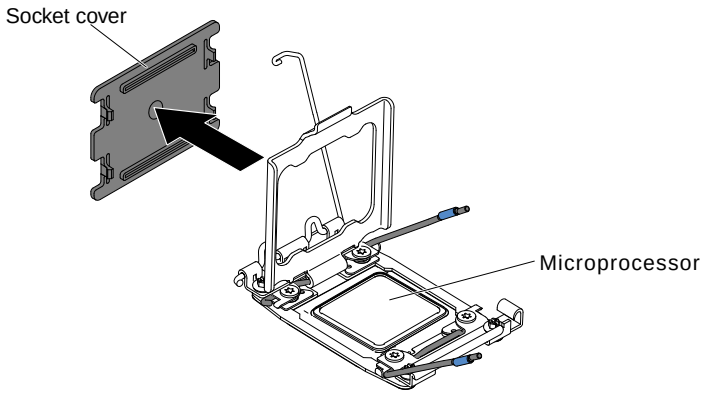



*Figure 217. Remove the microprocessor socket cover*

**Attention:** When you handle static-sensitive devices, take precautions to avoid damage from static electricity. For details about handling these devices, see ( “Handling static-sensitive devices” on page 37).

Step 8. Close the microprocessor socket release levers and retainer:

a. Close the microprocessor retainer on the microprocessor socket.

b. Identify which release lever is labeled as the first release lever to close and close it.

c. Close the second release lever on the microprocessor socket.

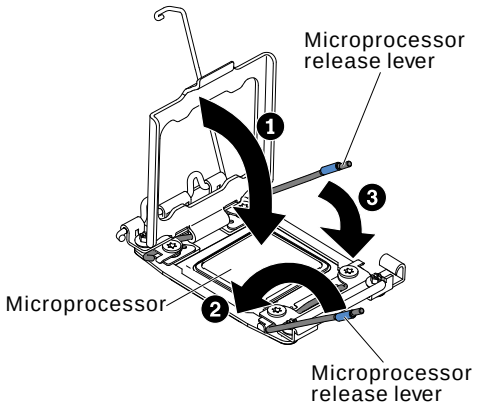



*Figure 218. Close the release lever*

Step 9. Install the heat sink:

**Attention:**

- Do not set down the heat sink after you remove the plastic cover.
- Do not touch the thermal grease on the bottom of the heat sink after you remove the plastic cover. Touching the thermal grease will contaminate it. See “Thermal grease” on page 91 for more information.

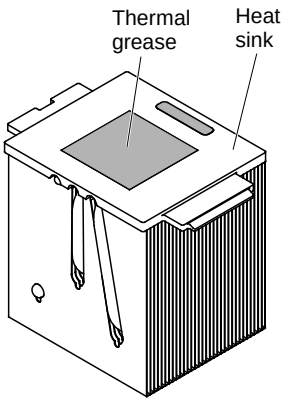



*Figure 219. Thermal grease in heat sink*

1. Remove the plastic protective cover from the bottom of the heat sink.
2. Position the heat sink over the microprocessor. The heat sink is keyed to assist with proper alignment.
3. Align and place the heat sink on top of the microprocessor in the retention bracket, thermal material side down.
4. Press firmly on the heat sink.
5. Rotate the heat sink retention module release lever to the closed position and hook it underneath the lock tab.

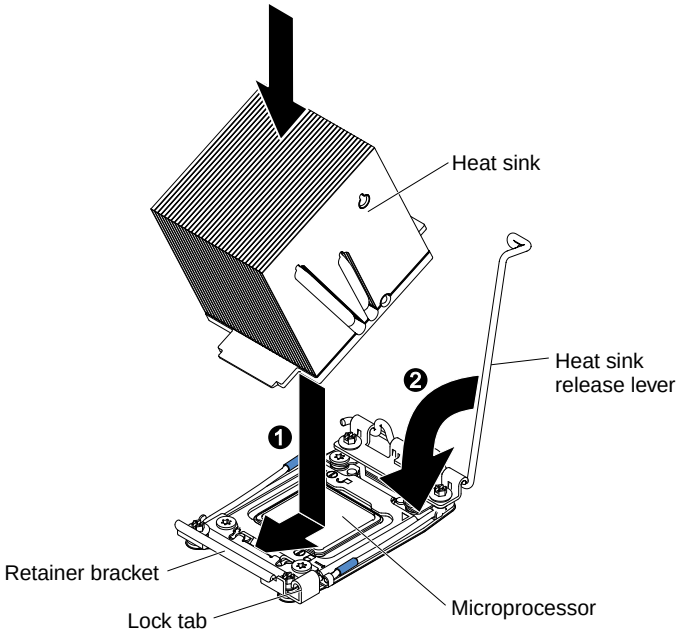



*Figure 220. Rotate and release heat sink*

Step 10. If you installed the second microprocessor, install the air baffle (see “Replacing the air baffle” on page 99) and fan 2 (see “Installing a simple-swap fan” on page 230).

Step 11. Install and lock the left-side cover ( “Installing the left-side cover” on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

**Thermal grease**

The thermal grease must be replaced whenever the heat sink has been removed from the top of the microprocessor and is going to be reused or when debris is found in the grease. Use this information to replace damaged or contaminated thermal grease on the microprocessor and heat sink.

When you are installing the heat sink on the same microprocessor that it was removed from, make sure that the following requirements are met:

- The thermal grease on the heat sink and microprocessor is not contaminated.
- Additional thermal grease is not added to the existing thermal grease on the heat sink and microprocessor.

**Notes:**

- Read the safety information in “Safety” on page v.
- Read the “Installation guidelines” on page 35.
- Read “Handling static-sensitive devices” on page 37.

To replace damaged or contaminated thermal grease on the microprocessor and heat sink, complete the following steps.

Step 1. Place the heat sink on a clean work surface.

Step 2. Remove the cleaning pad from its package and unfold it completely.

Step 3. Use the cleaning pad to wipe the thermal grease from the bottom of the heat sink.

**Note:** Make sure that all of the thermal grease is removed.

Step 4. Use a clean area of the cleaning pad to wipe the thermal grease from the microprocessor; then, dispose of the cleaning pad after all of the thermal grease is removed.

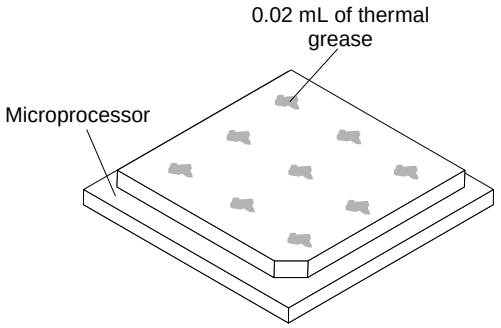



*Figure 221. 9 uniformly spaced dots on the top of the microprocessor*

Step 5. Use the thermal-grease syringe to place 9 uniformly spaced dots of 0.02 mL each on the top of the microprocessor. The outermost dots must be within approximately 5 mm of the edge of the microprocessor. This is to ensure uniform distribution of the grease.

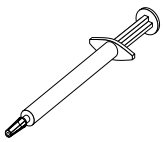


*Figure 222. Thermal-grease syringe*

**Note:** 0.01 mL is one tick mark on the syringe. If the grease is properly applied, approximately half (0.22 mL) of the grease will remain in the syringe.

Step 6. Install the heat sink onto the microprocessor as described in “Installing a microprocessor and heat sink” on page 288.

## Removing the microprocessor 2 expansion board

Use this information to remove the microprocessor 2 expansion board.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove the microprocessor 2 expansion board, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 4. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 5. Note where the cables are connected to the microprocessor 2 expansion board; then, disconnect them.

**Attention:** Disengage all latches, release tabs or locks on cable connectors when you disconnect all cables from the system board (see “Internal cable routing and connectors” on page 312). Failing to release them before removing the cables will damage the cable sockets on the microprocessor 2 expansion board. The cable sockets on the microprocessor 2 expansion board are fragile. Any damage to the cable sockets may require replacing the microprocessor 2 expansion board.

Step 6. Remove any of the following components that are installed on the microprocessor 2 expansion board and put them in a safe, static-protective place:

- Adapters (see “Removing an adapter” on page 213)
- DIMMs (see “Removing a memory module” on page 261)
- Microprocessors and heat sinks (see “Removing a microprocessor and heat sink” on page 283)

**Attention:** Remove the socket cover from the microprocessor socket on the new microprocessor 2 expansion board and place it on the microprocessor socket of the microprocessor 2 expansion board you are removing.

Step 7. Loosen the two thumb screws on the release lever and rotate the lever toward the back of the chassis till the stop point. The microprocessor 2 expansion board will lift up slightly when the release lever is fully open.

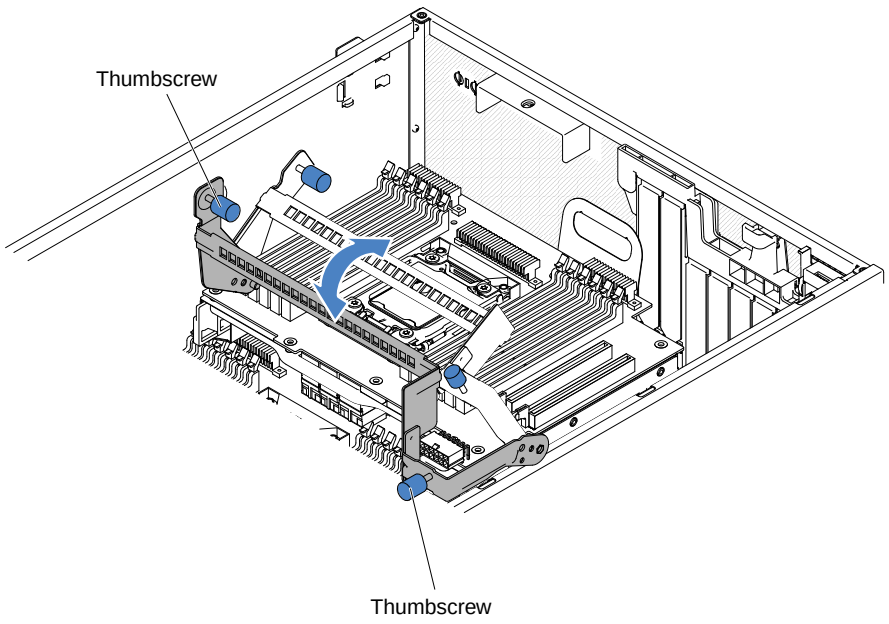



*Figure 223. Loosen the thumb screws*

Step 8. Grasp the release lever and the handle and carefully lift the microprocessor 2 expansion board out of the server.

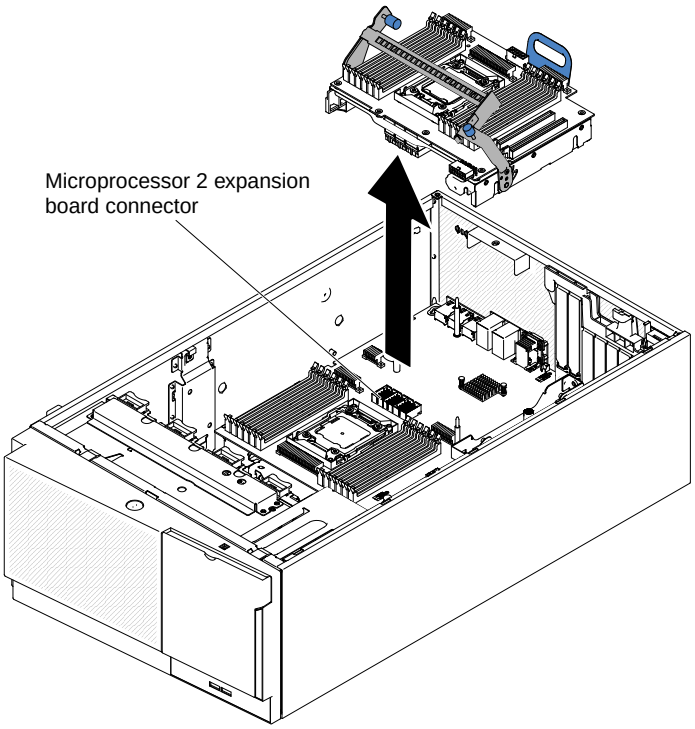



*Figure 224. Lift the CPU out*

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

**Attention:** Make sure to place the socket cover for the microprocessor socket on the microprocessor 2 expansion board before returning the microprocessor 2 expansion board.

## Installing the microprocessor 2 expansion board

Use this information to install the microprocessor 2 expansion board

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install the microprocessor 2 expansion board, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 4. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 5. Touch the static-protective package that contains the microprocessor 2 expansion board to any unpainted metal surface on the server; then, remove the microprocessor 2 expansion board from the package.

Step 6. Install the microprocessor 2 expansion board side bracket.

a. Align the side bracket with the holes on the chassis and install the side bracket on the system board.

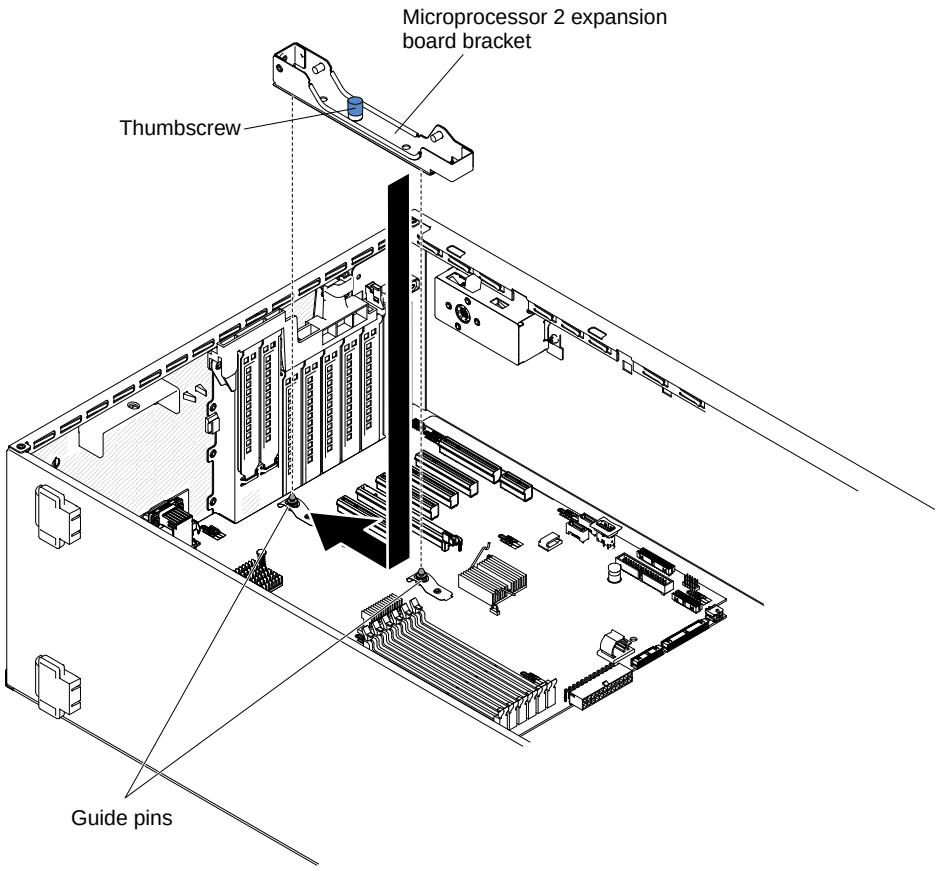



*Figure 225. Align the side bracket*

b. Slide the side bracket toward the rear of the server.

c. Fasten the thumbscrew on the side bracket.

Step 7. Install the two guide pins on the system board.

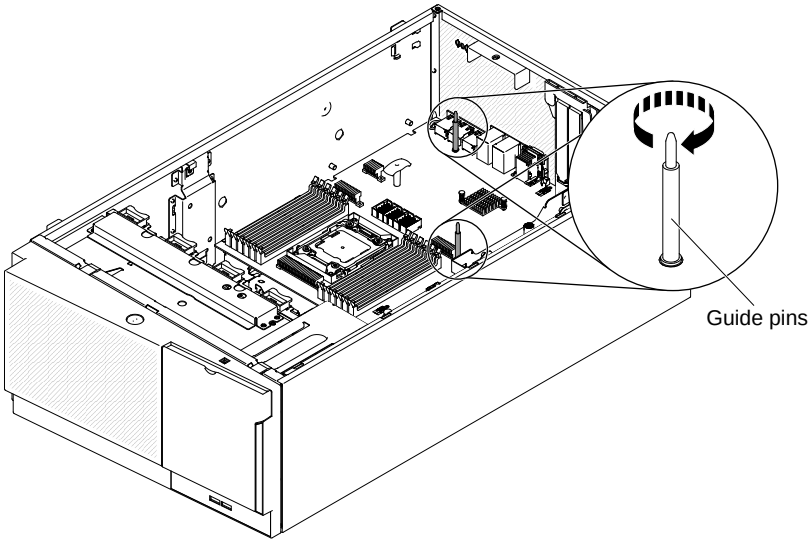



*Figure 226. Install two guide pins*

Step 8. Remove the cover on the microprocessor 2 expansion board connector from the system board.

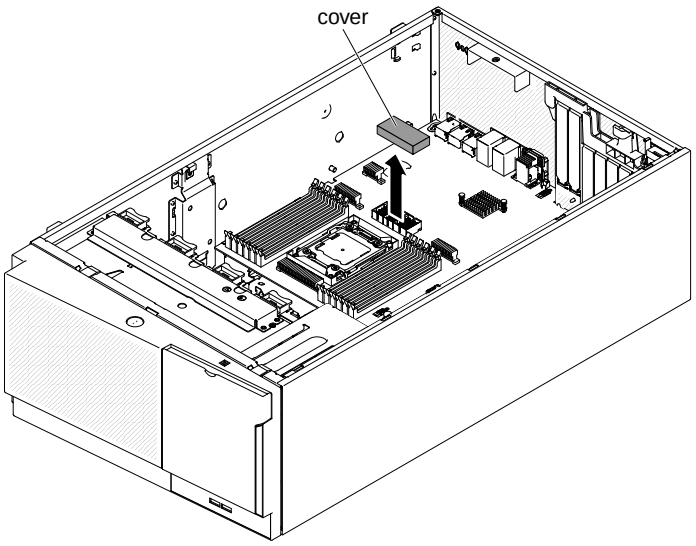



*Figure 227. Remove cover*

Step 9. Make sure the microprocessor 2 expansion board release lever is in the open position.

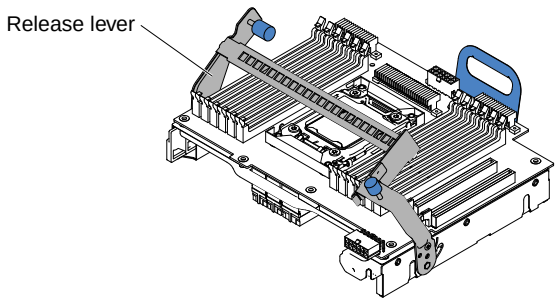



*Figure 228. Release lever in open position*

Step 10. Align the microprocessor 2 expansion board to the guide pins on the bottom of the chassis and the side bracket.

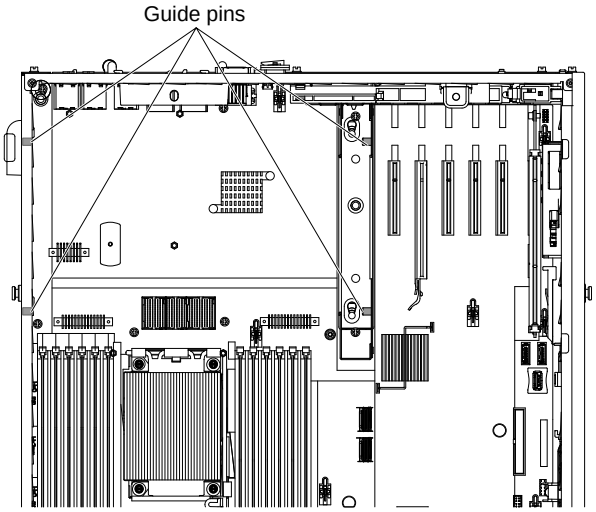



*Figure 229. Align CPU 2 expansion board*

Step 11. Align the holes on the microprocessor 2 expansion board to the guide pins on the system board. Install the microprocessor 2 expansion board on the system board.

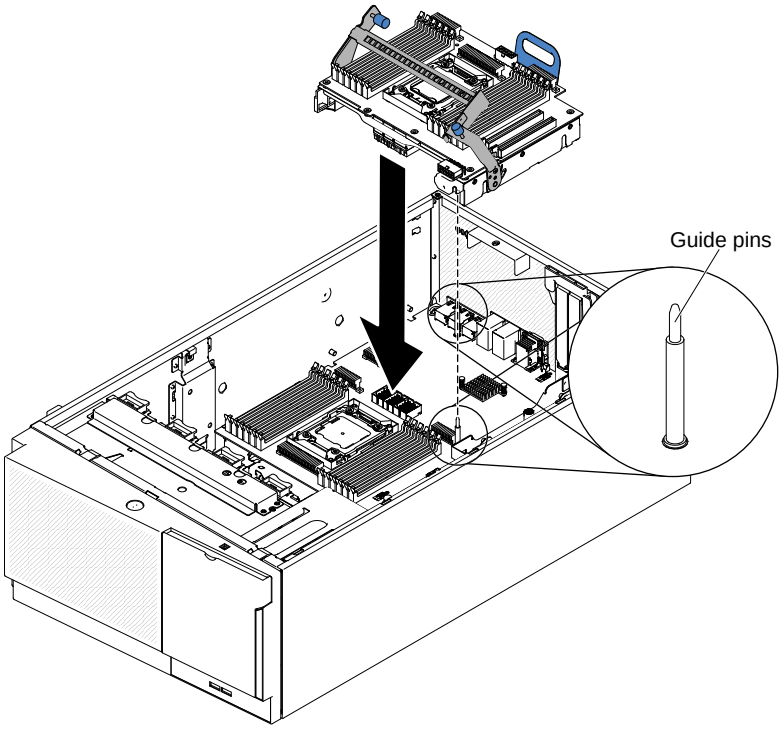



*Figure 230. Align holes in CPU 2*

Step 12. Press the microprocessor 2 expansion board firmly and horizontally to the system board.

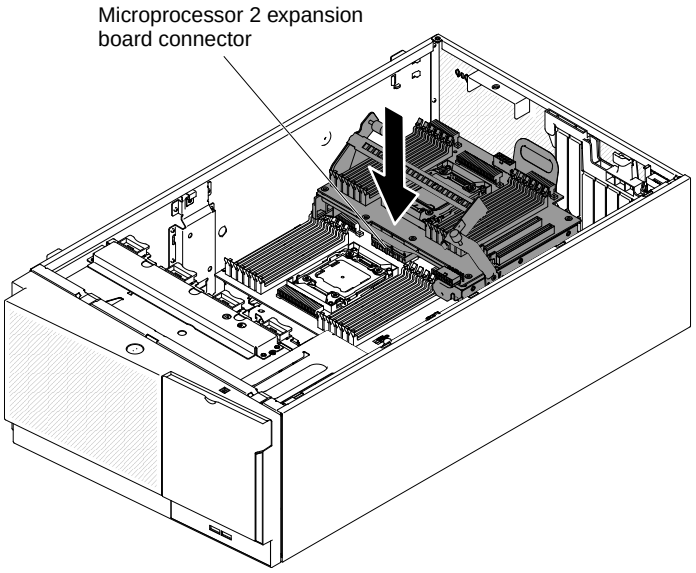



*Figure 231. Press CPU 2 expansion board on system board*

**Notes:**

1. Static electricity that is released to internal server components when the server is powered-on might cause the server to halt, which might result in the loss of data. To avoid this potential

problem, always use an electrostatic-discharge wrist strap or other grounding system when you work inside the server with the power on.

2. Make sure that none of the server cables are caught under the microprocessor 2 expansion board.

Step 13. Rotate the release lever toward the front of the server to secure the microprocessor 2 expansion board in place.

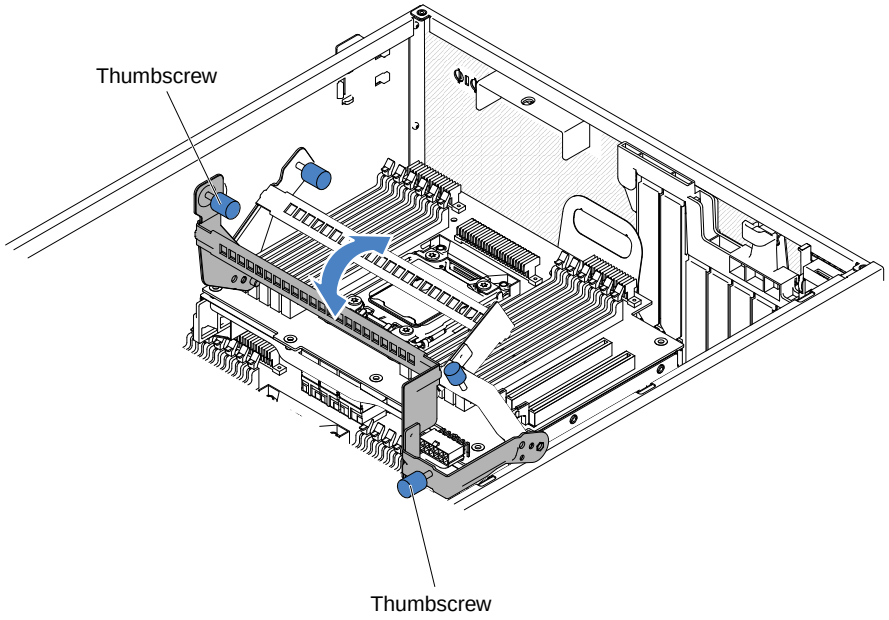



*Figure 232. Rotate release lever to the front*

**Note:** Press the microprocessor 2 expansion board connector to make sure the connector is seated securely on the system board.

Step 14. Fasten the two thumbscrews on the release lever.

Step 15. Route the power cable to the microprocessor 2 expansion board power connector from the power paddle card.

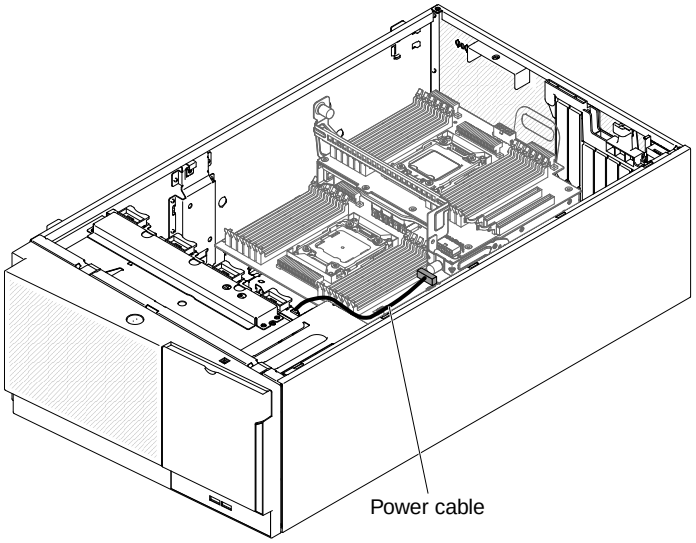



*Figure 233. Route the power cable*

Step 16. Install any of the following components that you removed from the microprocessor 2 expansion board:

- Microprocessor and heat sink (see “Installing a microprocessor and heat sink” on page 288)
- DIMMs (see “Installing a DIMM” on page 268)
- Adapters (see “Installing an adapter” on page 216)

Step 17. Reconnect any cable to the microprocessor 2 expansion board that you disconnected during removal (see “System-board internal connectors” on page 27 and “Internal cable routing and connectors” on page 312).

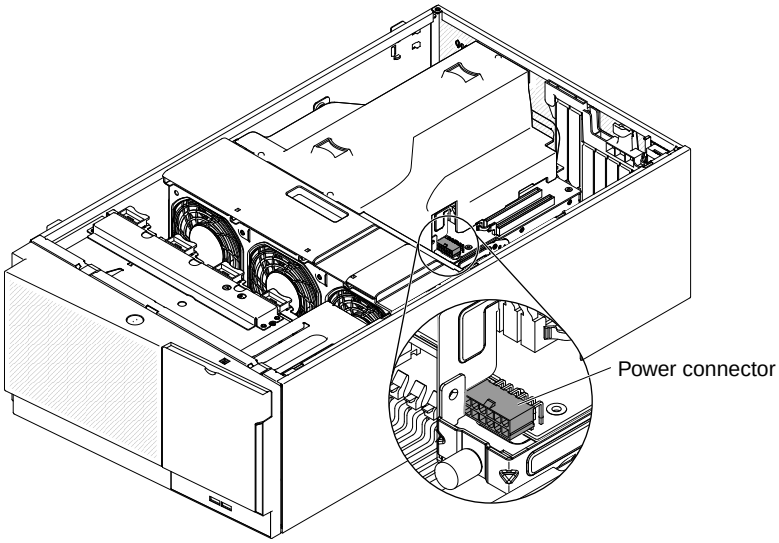



*Figure 234. Connect the power cable*

**Notes:**

1. Connect the power cable to the microprocessor 2 expansion board power connector from the power paddle card.
2. You might need to install the air baffle before connecting the power cable.

Step 18. Install the fan cage assembly (see “Installing the fan cage assembly” on page 274).

Step 19. Install the air baffle (see “Installing the air baffle” on page 190).

Step 20. Install the power supplies (see “Installing a hot-swap power supply” on page 255).

Step 21. Install and lock the left-side cover (see “Installing the left-side cover” on page 185).

Step 22. Stand the server back up in its vertical position.

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

## Removing a heat sink retention module

Use this information to remove a heat sink retention module.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To remove a heat sink retention module, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 4. Remove the heat sink (see “Removing a microprocessor and heat sink” on page 283).

**Note:** When you remove a microprocessor and heat sink, be sure to keep each heat sink with its microprocessor for reinstallation.

Step 5. Use a screwdriver and remove the four screws that secure the retention module to the system board; then, lift the retention module from the system board.

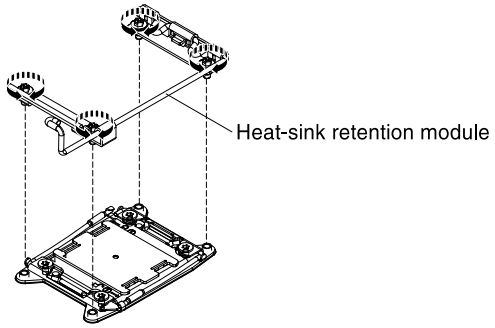



*Figure 235. Heat sink retention module removal*

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

## Installing a heat sink retention module

Use this information to install a heat sink retention module.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install a heat sink retention module, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 4. Align the retention module with the holes on the system board.

Step 5. Use a screwdriver to install the four screws.

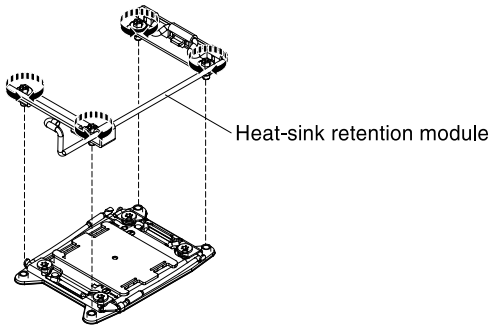



*Figure 236. Heat sink retention module installation*

Step 6. Install the heat sink (see “Installing a microprocessor and heat sink” on page 288).

**Attention:** Make sure that you install each heat sink with its paired microprocessor.

Step 7. Install the air baffle (see “Installing the air baffle” on page 190).

Step 8. Install and lock the left-side cover (see “Installing the left-side cover” on page 185).

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

## Removing the system board

Use this information to remove the system board.

**Notes:**

1. Before you replace the system board, make sure that you backup any features on demand (FoD) keys that were enabled. Reactivate any Features on Demand features after replacing the system board. Instructions for automating the activation of features and installing activation keys is in the *Lenovo Features on Demand User's Guide*. To download the document, go to http://www.ibm.com/systems/x/fod/, log in, and click **Help**.

2. When you replace the system board, you must either update the server with the latest firmware or restore the pre-existing firmware that the customer provides on a diskette or CD image. Make sure that you have the latest firmware or a copy of the pre-existing firmware before you proceed.
3. When you replace the system board, make sure that you remove the Integrated Management Module II (IMM2) Advanced Upgrade and place it on the new system board. For information about the Advanced Upgrade, see “Using the remote presence and blue-screen capture features” on page 115.

   **Note:** You have to reactivate the Features on Demand (FoD) after replacing the system board.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

**Note:** When you replace the system board, you must either update the server with the latest firmware or restore the pre-existing firmware that the customer provides on a diskette or CD image. Make sure that you have the latest firmware or a copy of the pre-existing firmware before you proceed.

To remove the system board, complete the following steps.

Step 1. Carefully turn the server on its side so that it is lying flat, with the cover facing up.

**Attention:** Do not allow the server to fall over.

Step 2. Unlock and remove the left-side cover (see “Removing the left-side cover” on page 184).

Step 3. Remove the air baffle (see “Removing the air baffle” on page 189).

Step 4. Remove the fan cage assembly (see “Removing the fan cage assembly” on page 272).

Step 5. Note where the cables are connected to the system board; then, disconnect them.

**Attention:** Disengage all latches, release tabs or locks on cable connectors when you disconnect all cables from the system board (see “Internal cable routing and connectors” on page 312). Failing to release them before removing the cables will damage the cable sockets on the system board. The cable sockets on the system board are fragile. Any damage to the cable sockets may require replacing the system board.

Step 6. Remove any of the following components that are installed on the system board and put them in a safe, static-protective place:

- Adapters (see “Removing an adapter” on page 213)
- DIMMs (see “Removing a memory module” on page 261)
- Microprocessors and heat sinks (see “Removing a microprocessor and heat sink” on page 283)

  **Notes:**

  1. Remove the socket covers from the microprocessor sockets on the new system board and place them on the microprocessor sockets of the system board you are removing.
  2. Do not allow the thermal grease to come in contact with anything, and keep each heat sink paired with its microprocessor for reinstallation. Contact with any surface can compromise the thermal grease and the microprocessor socket. A mismatch between the microprocessor and its original heat sink can require the installation of a new heat sink.

- Microprocessor 2 expansion board (see “Removing the microprocessor 2 expansion board” on page 297)
- Battery (see “Removing the system battery” on page 233)
- Hypervisor ( “Removing a USB embedded hypervisor flash device” on page 270)

- Remote RAID battery holder (see “Removing a RAID adapter battery or flash power module holder” on page 191)

Step 7. Pull the release pin up while holds the handle on the system board and slide the system board toward the front of the server to disengage the tab from the chassis; then, grasp the handles and carefully lift the system board out of the server.

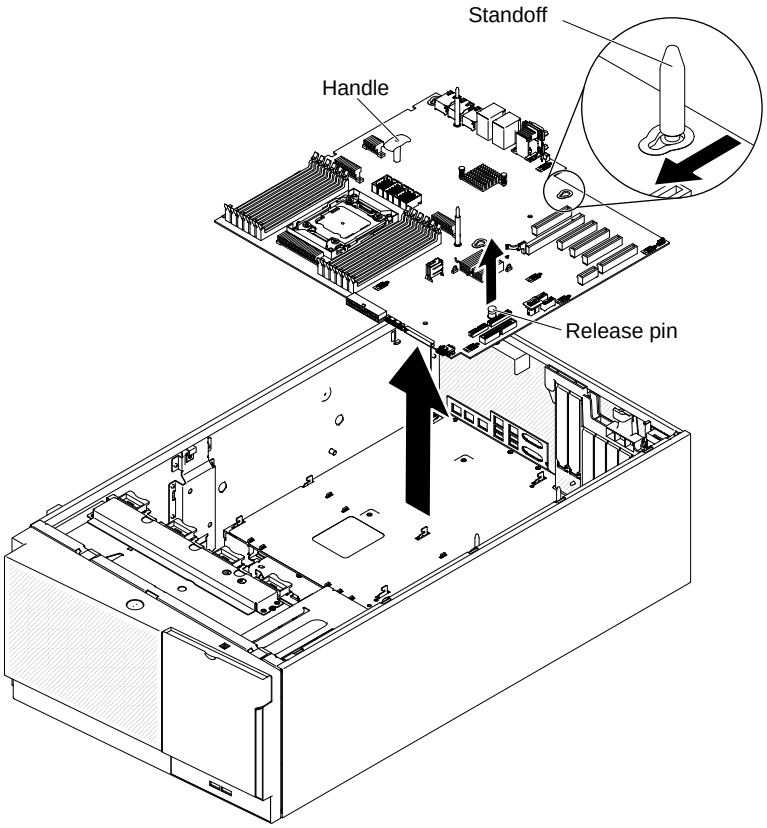



*Figure 237. System board removal*

Step 8. Remove the socket dust covers from the microprocessor sockets on the new system board and place them on the microprocessor sockets of the old system board that you are removing.

If you are instructed to return the server component or optional device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

**Attention:** Make sure to place the socket cover for the microprocessor socket on the system board before returning the system board.

## Installing the system board

Use this information to install the system board.

**Notes:**

1. When you reassemble the components in the server, be sure to route all cables carefully so that they are not exposed to excessive pressure.
2. When you replace the system board, you must either update the server with the latest firmware or restore the pre-existing firmware from a diskette or CD image. Make sure that you have the latest firmware or a copy of the pre-existing firmware before you proceed. See “Updating the firmware”

on page 103, “Updating the Universal Unique Identifier (UUID)” on page 120, and “Updating the DMI/SMBIOS data” on page 123.

3. When you replace the system board, make sure that you remove the Integrated Management Module II (IMM2) Advanced Upgrade and place it on the new system board. For information about the Advanced Upgrade, see “Using the remote presence and blue-screen capture features” on page 115.
4. Reactivate any Features on Demand features after replacing the system board. Instructions for automating the activation of features and installing activation keys is in the *Lenovo Features on Demand User's Guide*. To download the document, go to http://www.ibm.com/systems/x/fod/, log in, and click **Help**.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 35.

If you are replacing a server component in the server, you need to turn off the server and peripheral devices, and disconnect the power cords and all external cables.

To install the system board, complete the following steps.

Step 1. Touch the static-protective package that contains the system board to any unpainted metal surface on the server; then, remove the system board from the package.

Step 2. Align the guide pins on the chassis with the holes on the system board. Then, insert the system board.

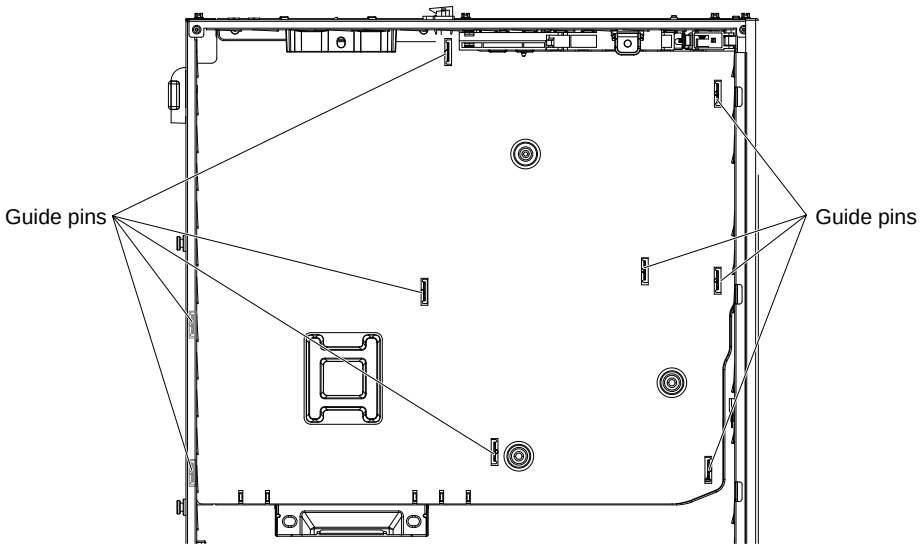



*Figure 238. Align guide pins and insert system board*

**Note:** Make sure that none of the server cables are caught under the system board.

Step 3. Slightly pull up the release pin and slide the system board toward the rear of the server.

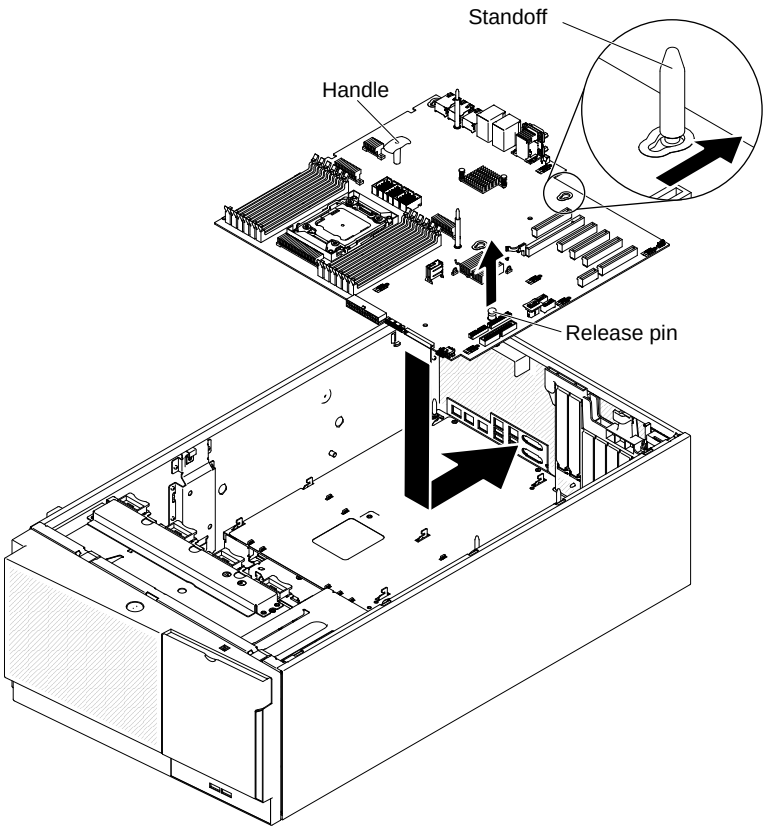



*Figure 239. System board installation*

**Note:** Make sure that none of the server cables are caught under the system board.

Step 4. Install any of the following components that you removed from the system board:

- Microprocessor 2 expansion board (see “Installing the microprocessor 2 expansion board” on page 299)
- Microprocessor and heat sink (see “Installing a microprocessor and heat sink” on page 288)
- DIMMs (see “Installing a DIMM” on page 268)
- Adapters (see “Installing an adapter” on page 216)
- Battery (see “Installing the system board” on page 309)
- Hypervisor (see “Installing a USB embedded hypervisor flash device” on page 271)

Step 5. Reconnect any cables to the system board that you disconnected during removal (see “System-board internal connectors” on page 27 and “Internal cable routing and connectors” on page 312).

Step 6. Install the fan cage assembly (see “Installing the fan cage assembly” on page 274).

Step 7. Install the air baffle (see “Installing the air baffle” on page 190).

Step 8. Install the power supplies (see “Installing a hot-swap power supply” on page 255).

Step 9. Install and lock the left-side cover (see “Installing the left-side cover” on page 185).

Step 10. Reconnect the external cables and power cords; then, turn on the attached devices and turn on the server.

Step 11. Start the Setup utility and reset the configuration.

a. Set the system date and time.
b. Set the power-on password.
c. Reconfigure the server.

See “Using the Setup utility” on page 107 for details.

Step 12. Either update the server with the latest RAID firmware or restore the pre-existing firmware from a diskette or CD image.

Step 13. Update the UUID (see “Updating the Universal Unique Identifier (UUID)” on page 120).

Step 14. Update the DMI/SMBIOS (see “Updating the DMI/SMBIOS data” on page 123).

Step 15. Reactivate any Features on Demand features.

If you have replaced a server component or installed an optional device in the server, you need to reconnect the power cords and all external cables, and turn on the server and peripheral devices.

## Internal cable routing and connectors

The server uses cables to connect SATA attached, hot-swap SATA, hot-swap SAS and DVD drive devices to the power supply and to the system board.

Review the following information before connecting power and signal cables to internal drives:

- The drives that are preinstalled in the server come with power and signal cables attached. If you replace any drives, remember which cable is attached to which drive.
- When you route a cable, make sure that it does not block the airflow to the rear of the drives or over the microprocessor or DIMMs.

### Power cable connection

The following illustration shows the power cable routing and the connectors from the power paddle card to the system board and the microprocessor 2 expansion board.

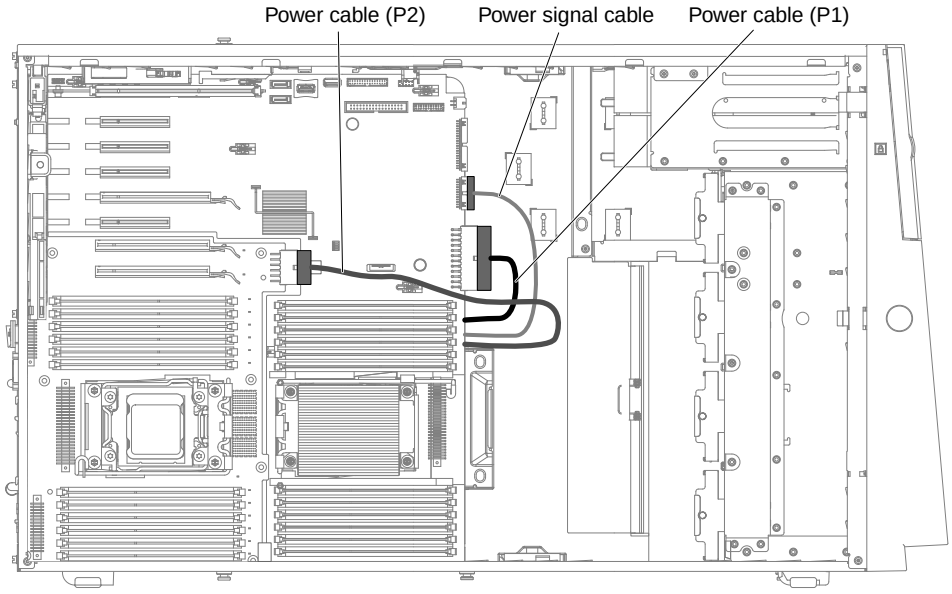



*Figure 240. Power cable routing in the system board and the microprocessor 2 expansion board*

## Operator information panel cable connection

The following illustration shows the internal cable routing and connectors from the operator information panel to the system board.

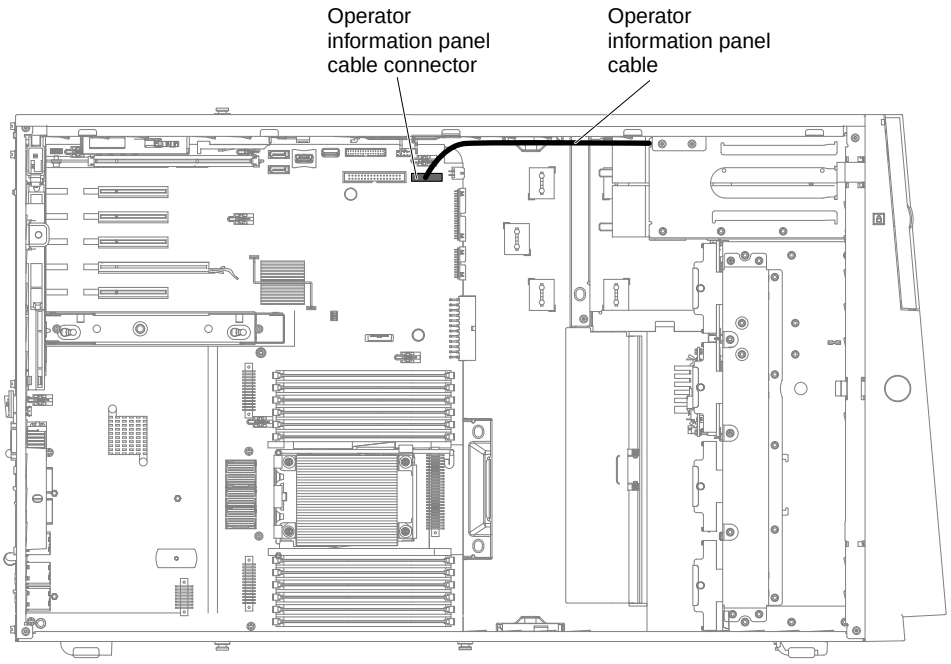



*Figure 241. Internal cable routing and connectors from operator information panel to system board*

## Light path diagnostics panel cable connection

The following illustration shows the internal cable routing and connectors from the light path diagnostics panel to the system board.

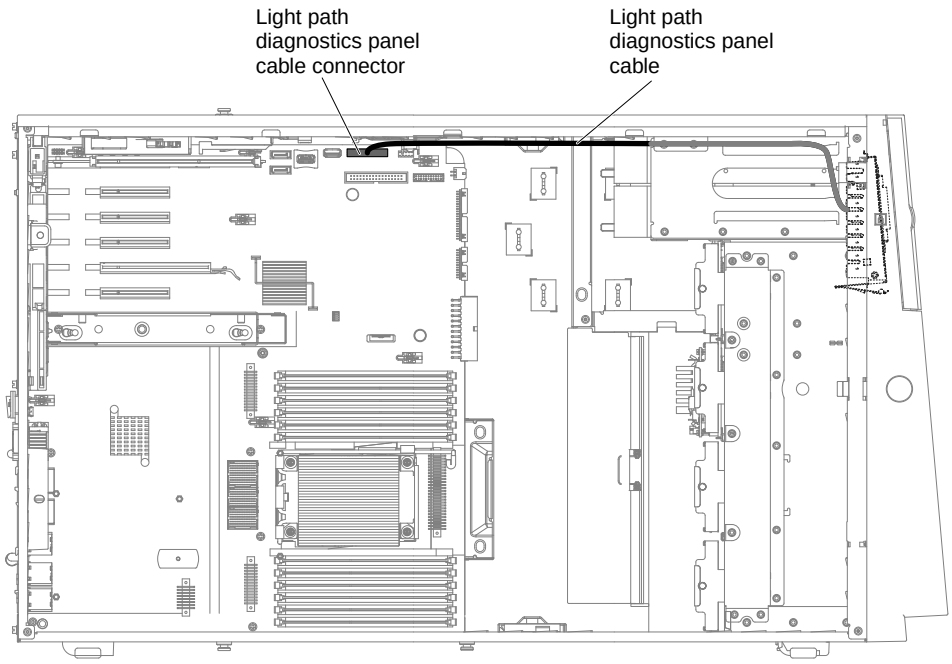



*Figure 242. Internal cable routing and connectors from light path diagnostics panel to system board*

## Tape drive cable connection

You can install either a USB or SATA tape drive in the server.

The following illustration shows the internal cable routing and connectors for the USB tape drive. It also shows the internal power cable for the optical drives.

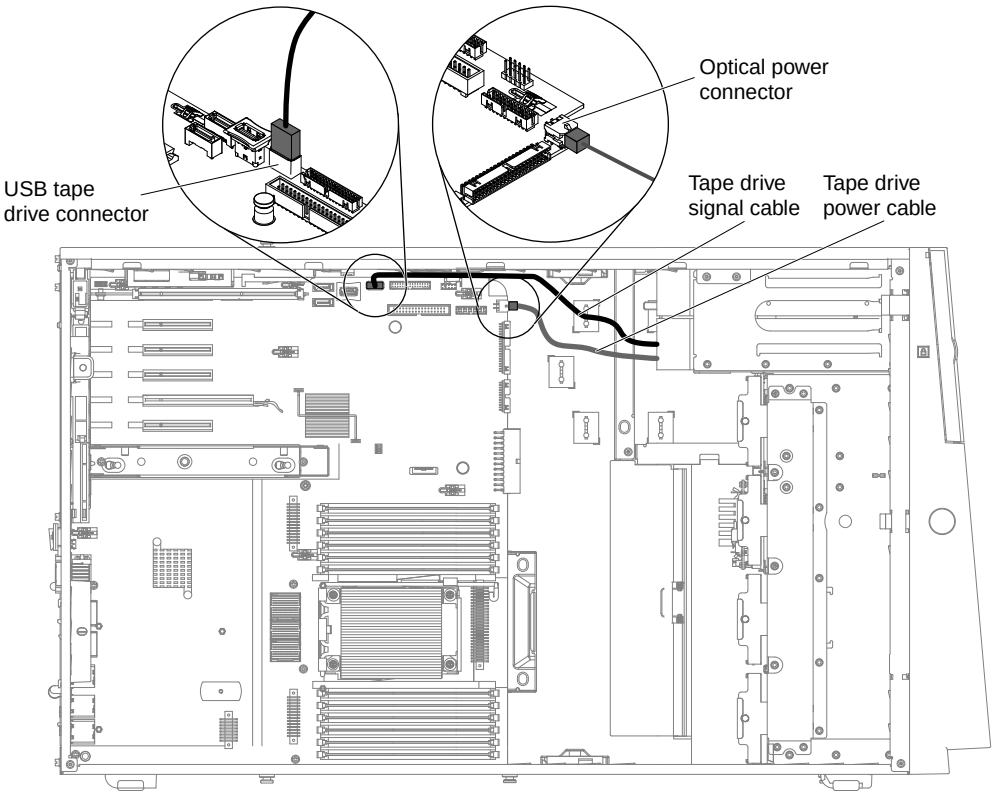



*Figure 243. Internal cable routing and connectors for the USB tape drive*

The following illustrations show the cable routing and connectors for the SATA tape drive. It also shows the internal power cable for the optical drives.

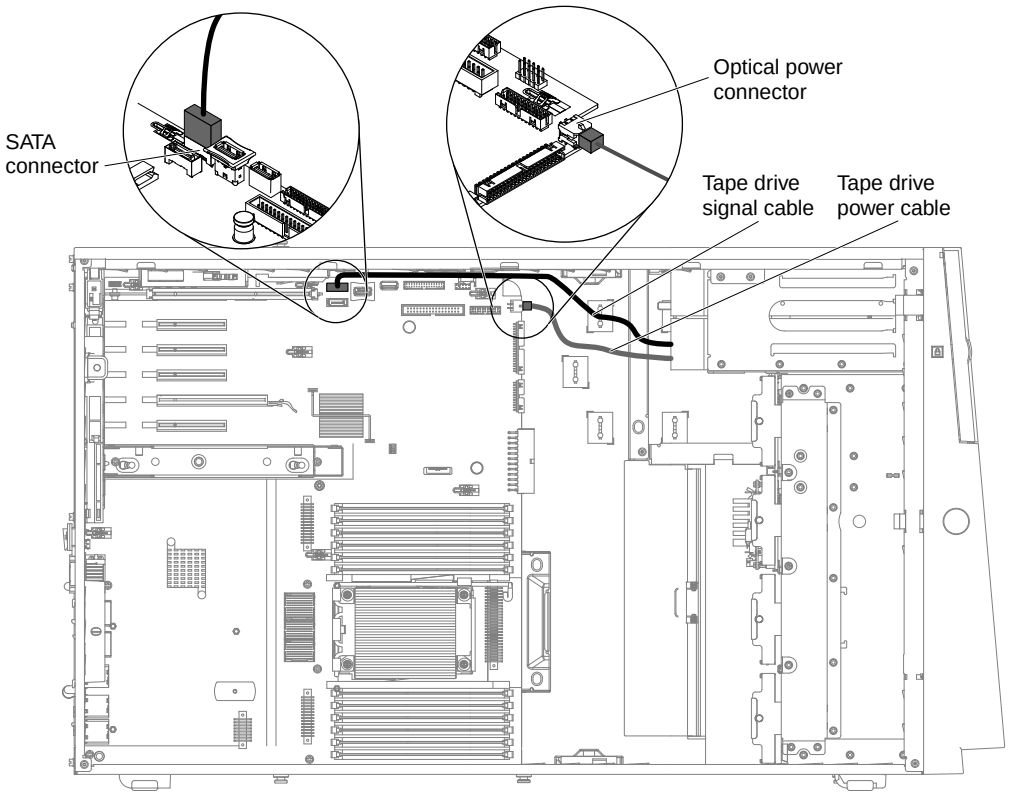



*Figure 244. Cable routing and connectors for the SATA tape drive*

## DVD drive cable connection

The following illustration shows the internal SATA and power cable routing and the connectors from the DVD drive to the system board.

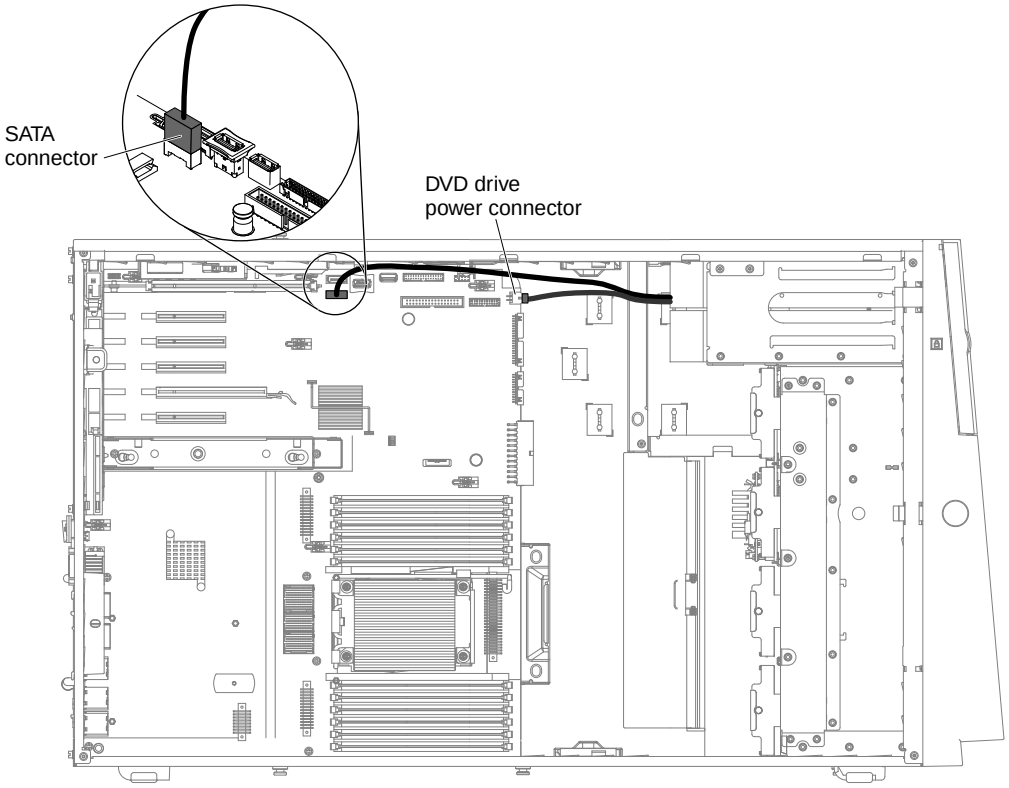



*Figure 245. SATA and power cable routing and connectors from the DVD drive to system board*

## Hard disk drive cable connection

Review the following information before connecting power and signal cables to internal drives.

1. The following illustrations show the connectors on the 2.5-inch and 3.5-inch hard disk drive backplanes.

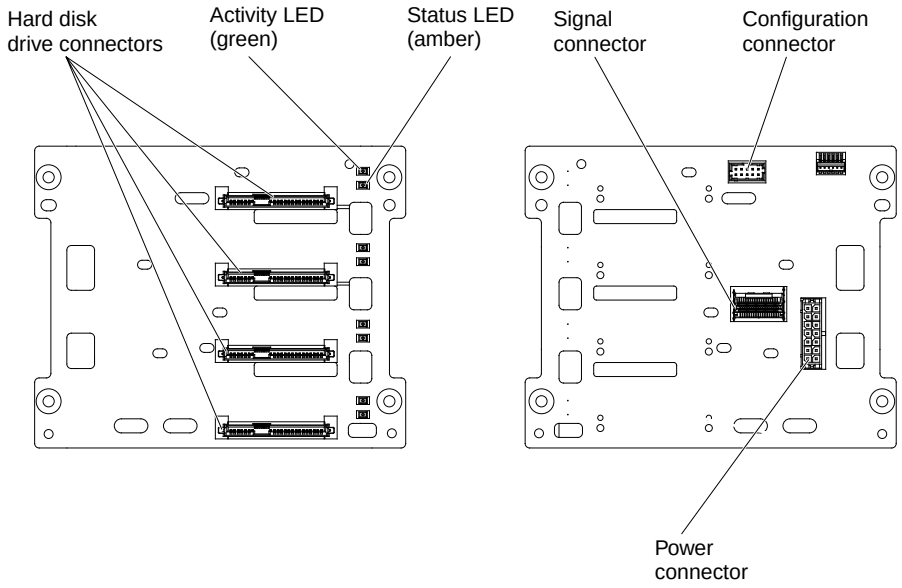



*Figure 246. Connectors on the 3.5-inch hard disk drive backplane*

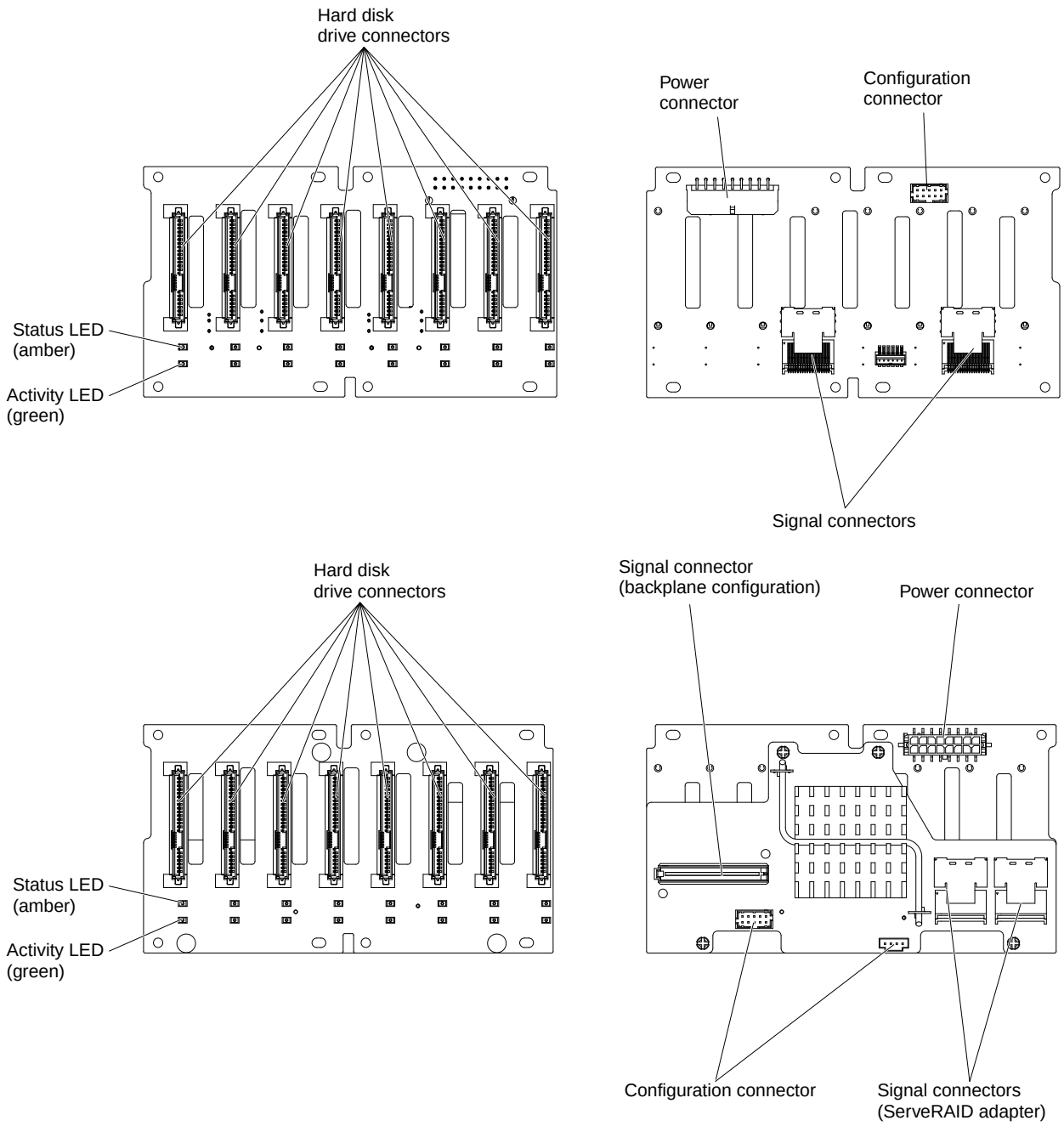



*Figure 247. Connectors on the 2.5-inch hard disk drive backplane*

**Note:** If the server is configured for RAID operation using a ServeRAID adapter, you might have to reconfigure your disk arrays after you install drives. See the ServeRAID adapter documentation for additional information about RAID operation and complete instructions for using the ServeRAID adapter.

Review the following information before connecting cables to the backplanes:

1. For server models with sixteen 2.5-inch hot-swap hard disk drives.

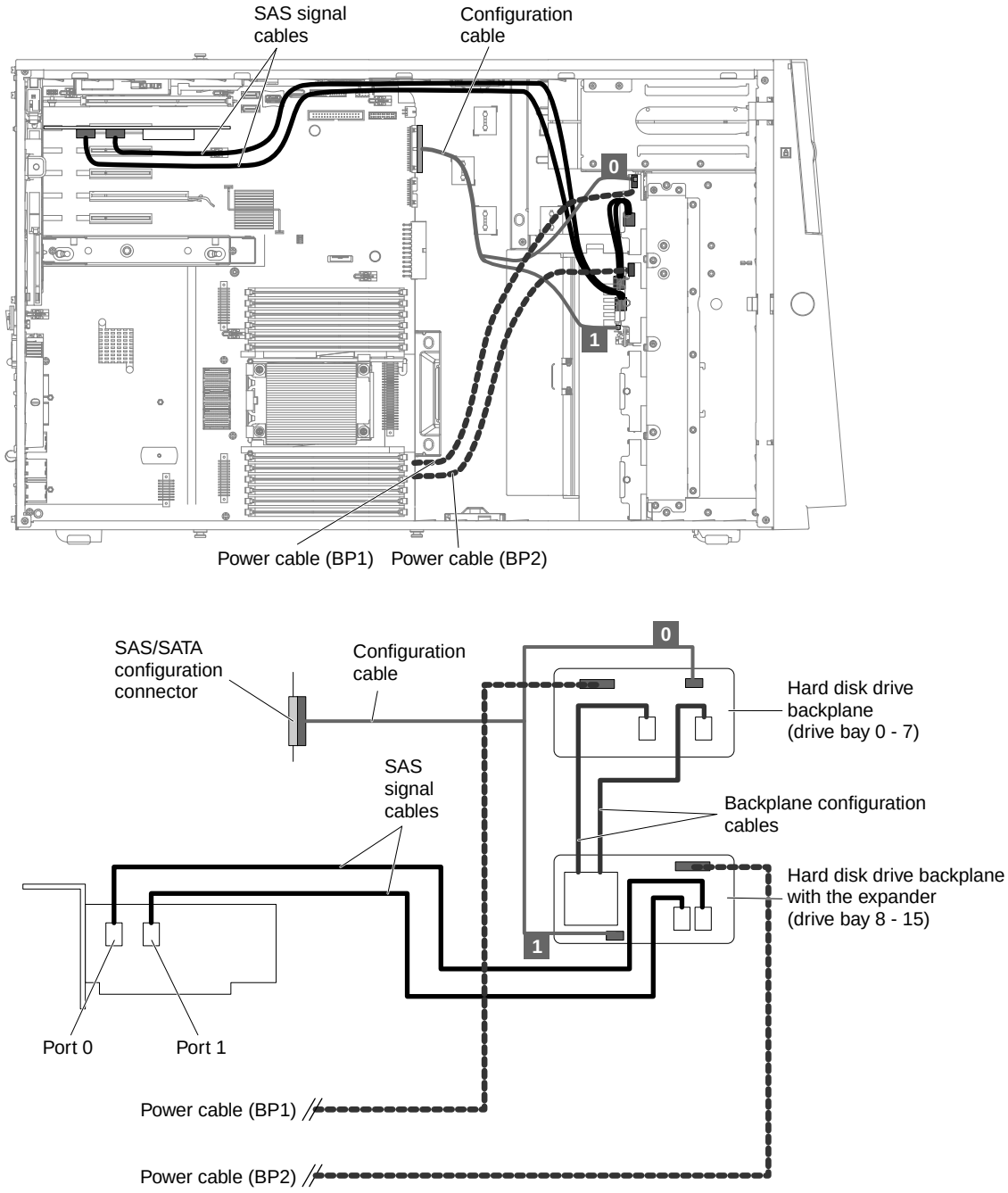



*Figure 248. Server models with sixteen 2.5-inch hot-swap hard disk drives*

2. For server models with sixteen 2.5-inch hot-swap hard disk drives and two ServeRAID adapters.

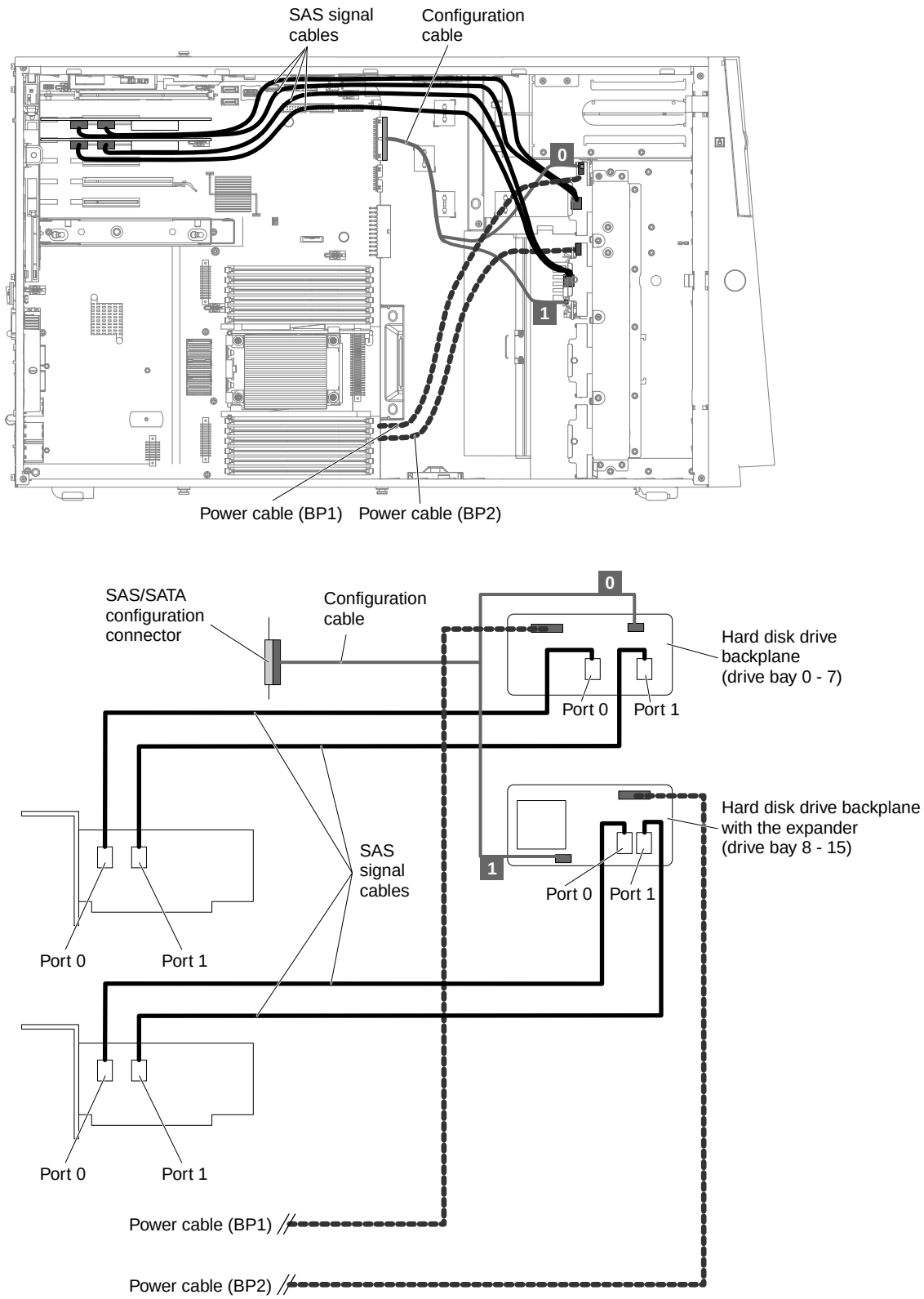



*Figure 249. Server models with sixteen 2.5-inch hot-swap hard disk drives and two ServeRAID adapters*

3. For server models with twenty-four 2.5-inch hot-swap hard disk drives.

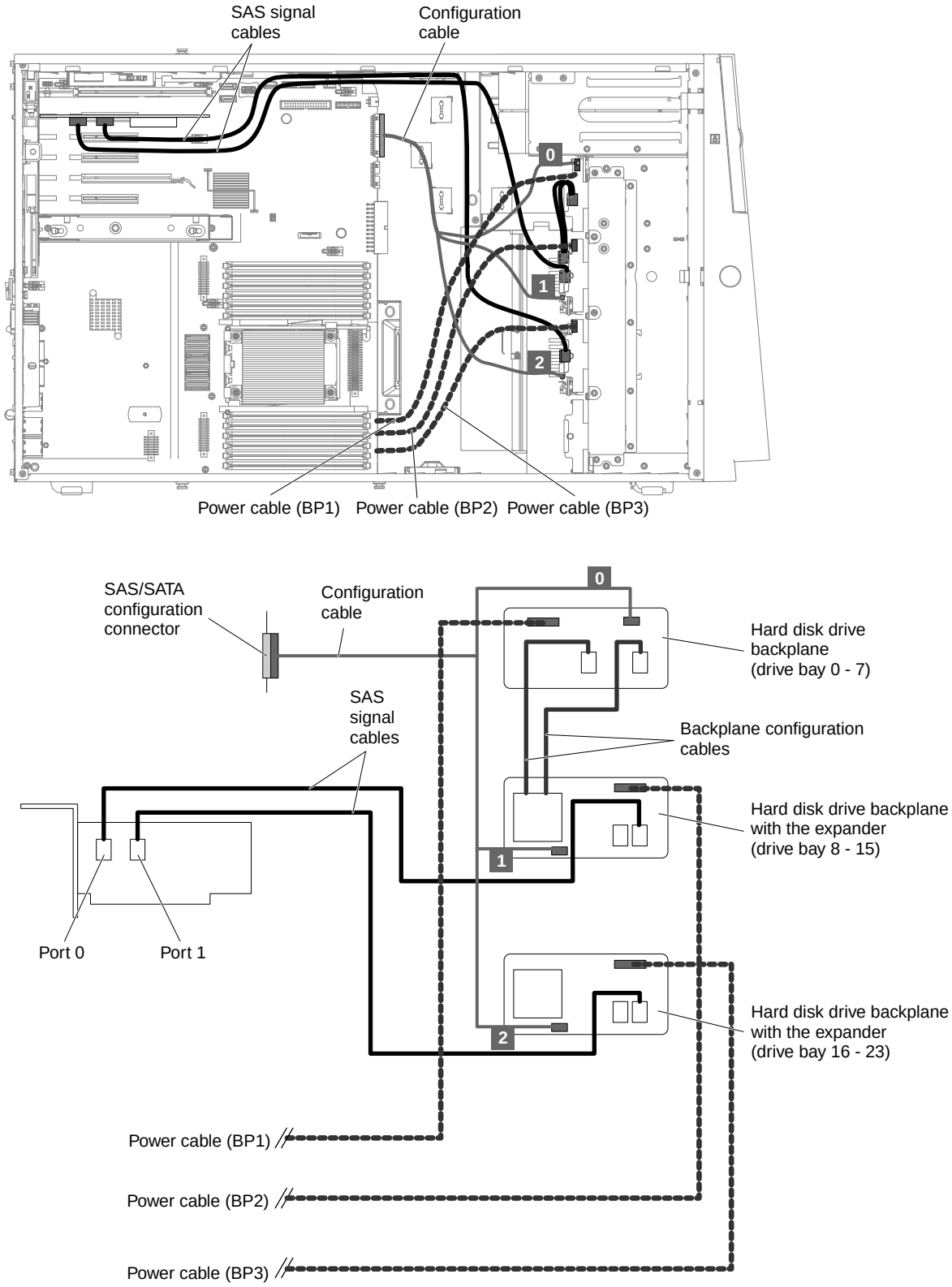
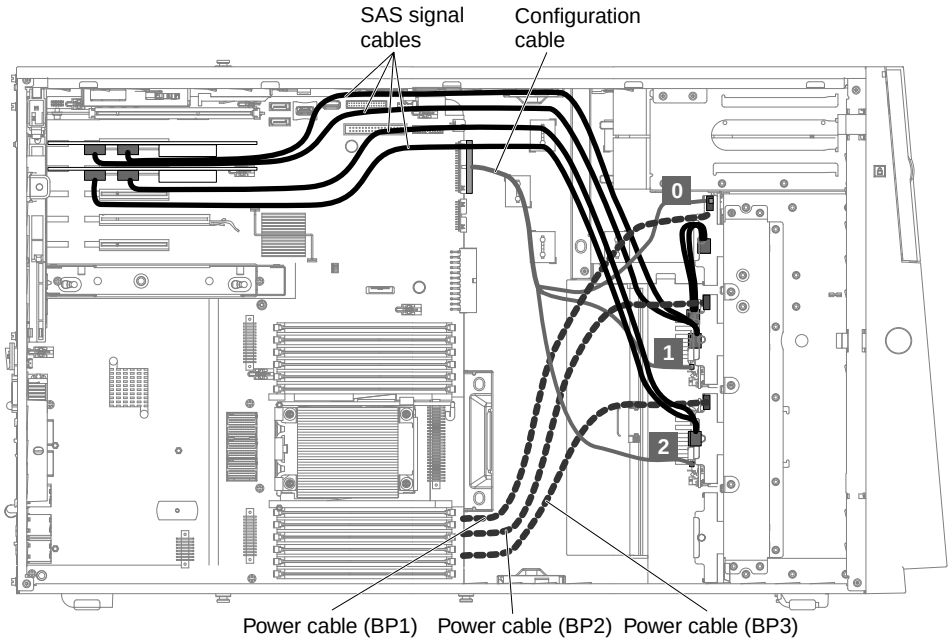



*Figure 250. Server models with twenty-four 2.5-inch hot-swap hard disk drives*

4. For server models with twenty-four 2.5-inch hot-swap hard disk drives and two ServeRAID adapters.


SAS signal cables
Configuration cable
0
1
2
Power cable (BP1)
Power cable (BP2)
Power cable (BP3)

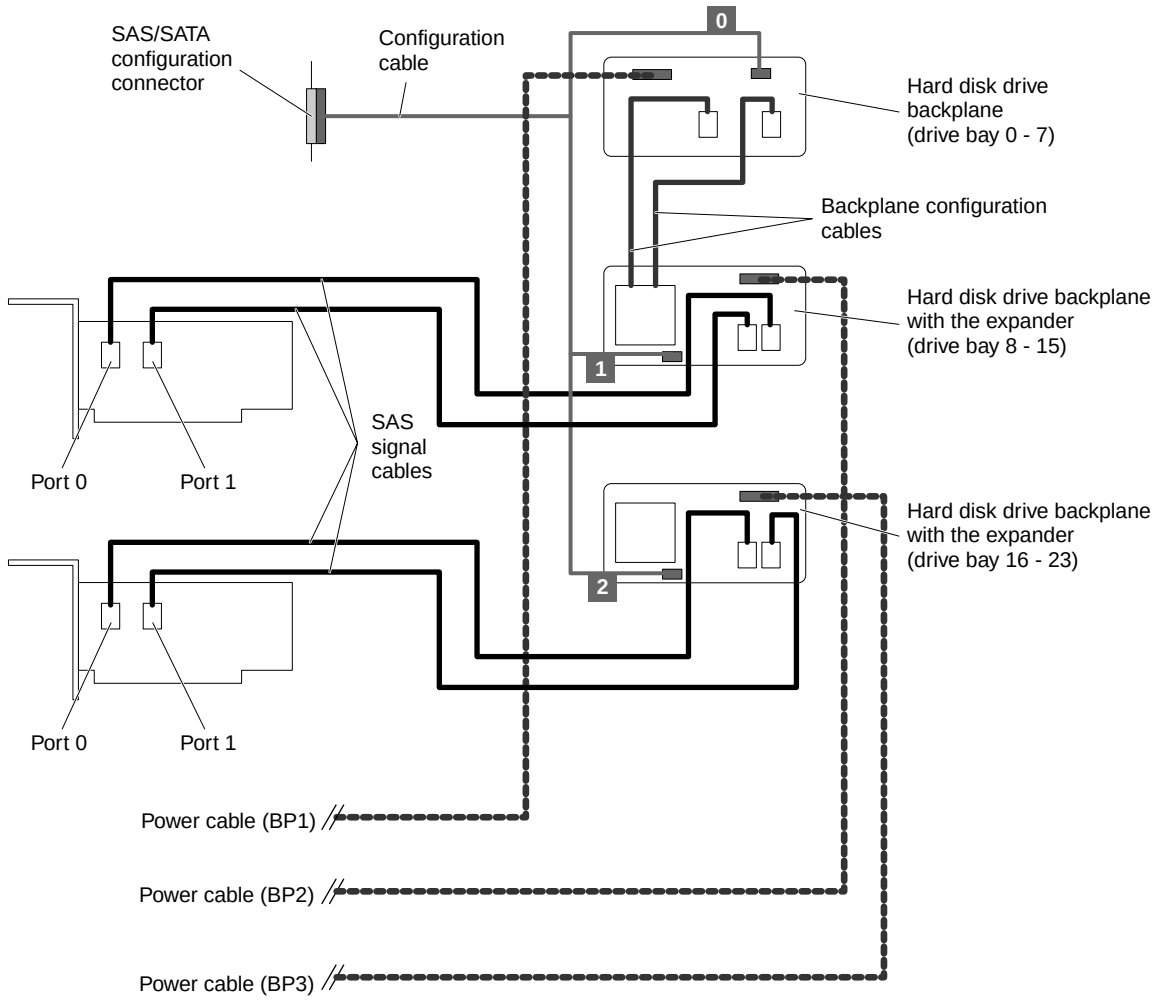

SAS/SATA configuration connector
Configuration cable
0
Hard disk drive backplane (drive bay 0 - 7)
Backplane configuration cables
Hard disk drive backplane with the expander (drive bay 8 - 15)
1
SAS signal cables
Port 0
Port 1
Hard disk drive backplane with the expander (drive bay 16 - 23)
2
Port 0
Port 1
Power cable (BP1)
Power cable (BP2)
Power cable (BP3)

*Figure 251. Server models with twenty-four 2.5-inch hot-swap hard disk drives and two ServeRAID adapters*

5. For server models with thirty-two 2.5-inch hot-swap hard disk drives.

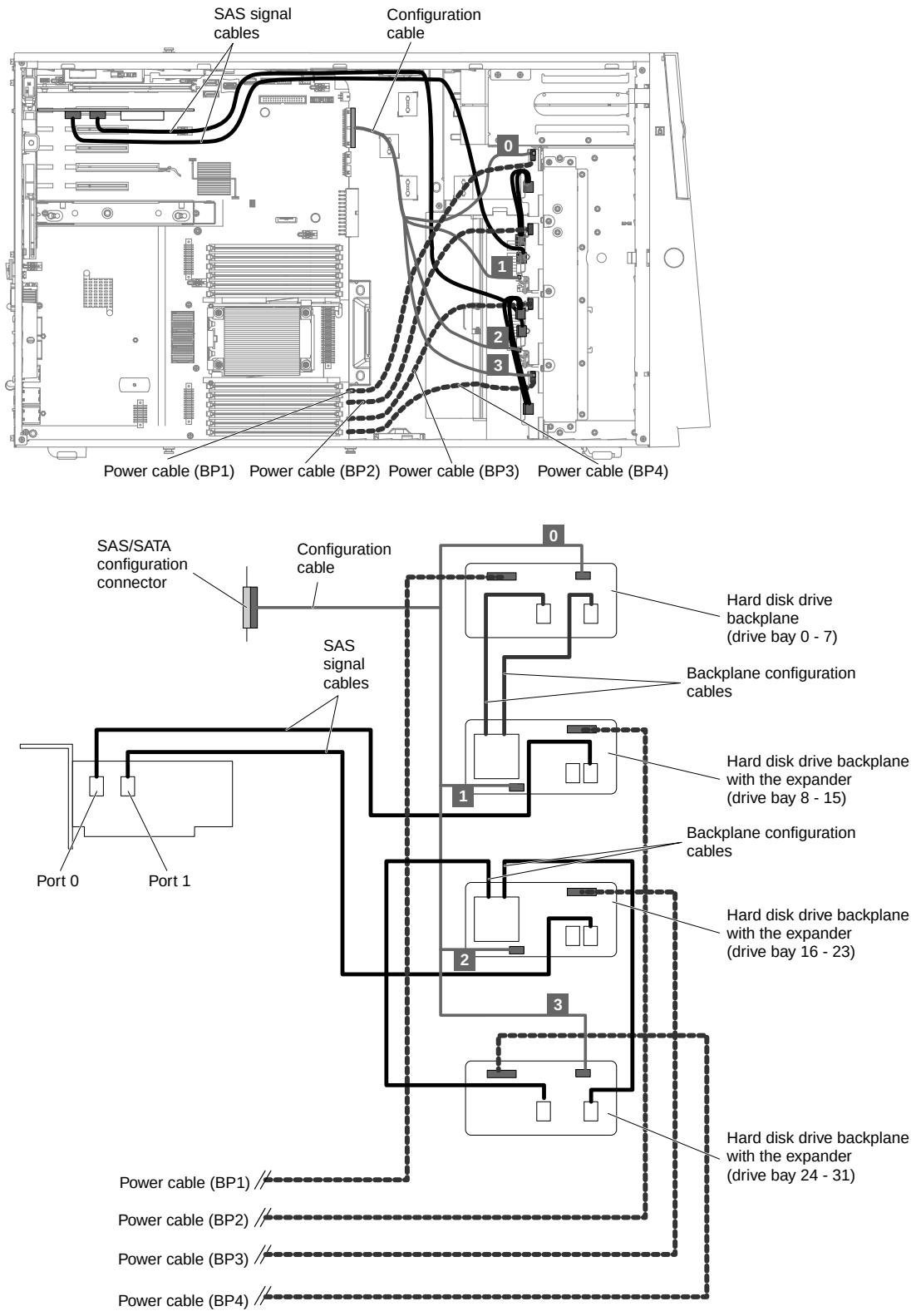



*Figure 252. Server models with thirty-two 2.5-inch hot-swap hard disk drives*

6. For server models with thirty-two 2.5-inch hot-swap hard disk drives and two ServeRAID adapters.

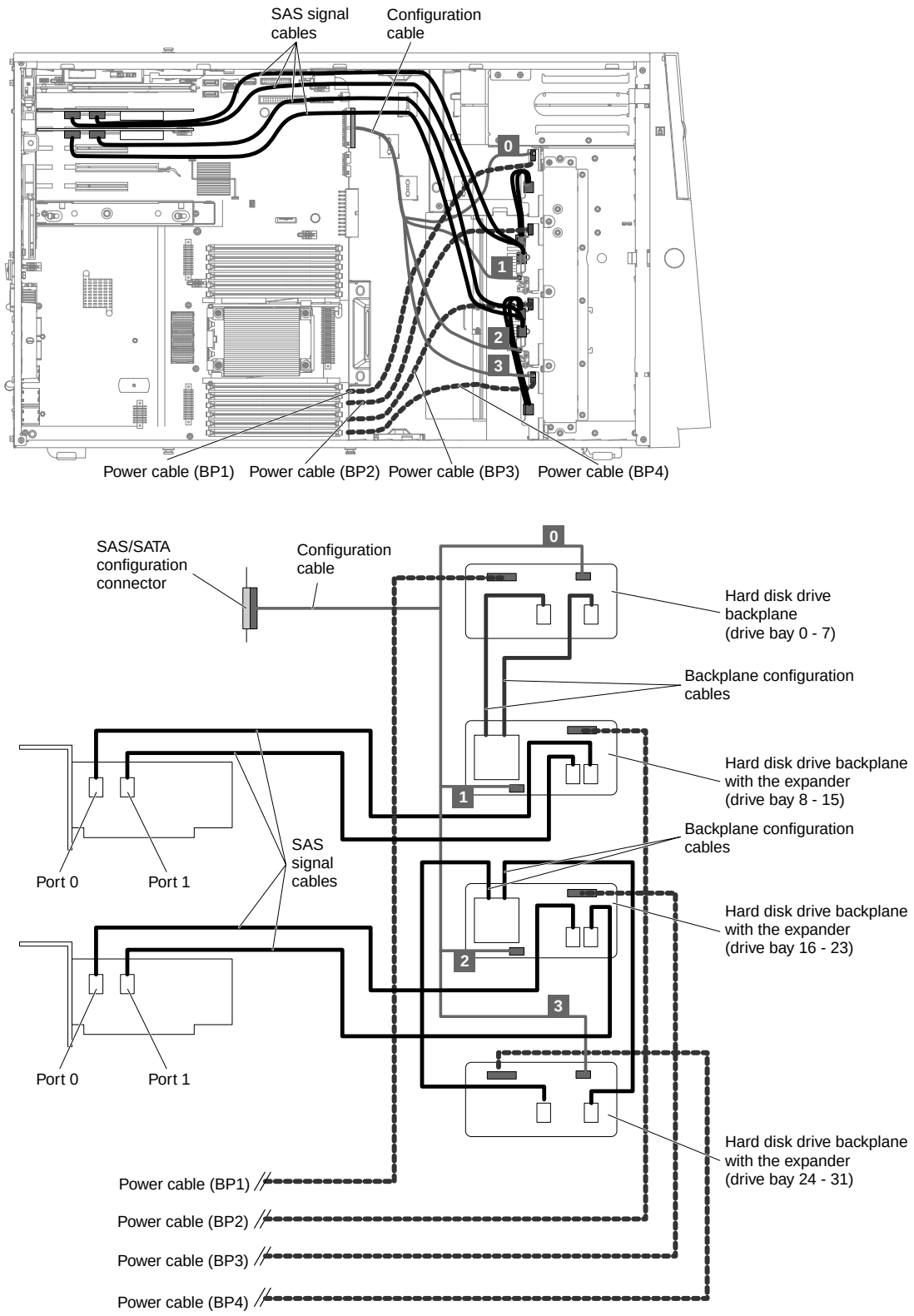



*Figure 253. Server models with thirty-two 2.5-inch hot-swap hard disk drives and two ServeRAID adapters*

7. For server models with eight 3.5-inch hot-swap hard disk drives.

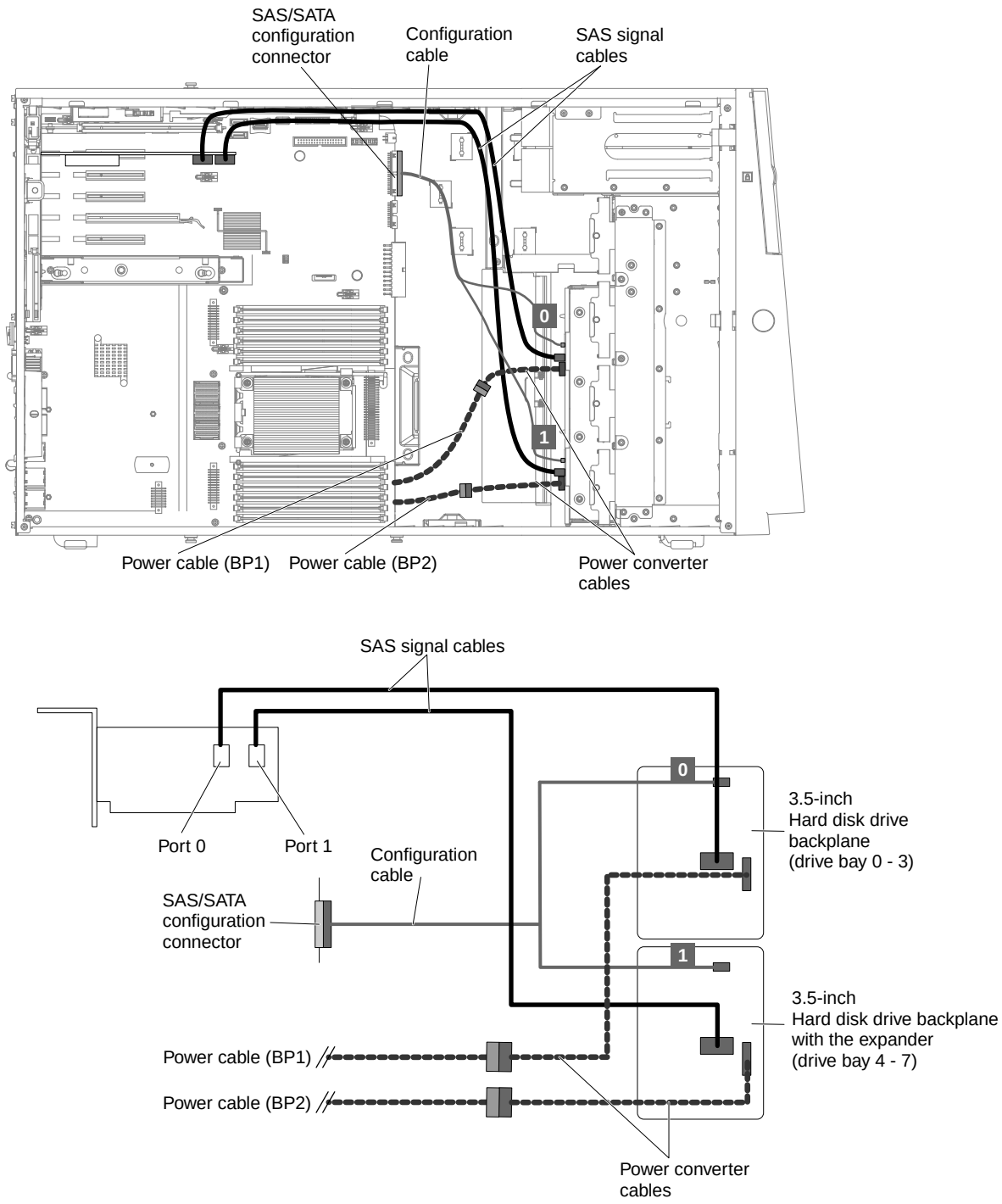



*Figure 254. Server models with eight 3.5-inch hot-swap hard disk drives*

8. For server models with eight 2.5-inch hot-swap hard disk drives and eight 3.5-inch hot-swap hard disk drives.

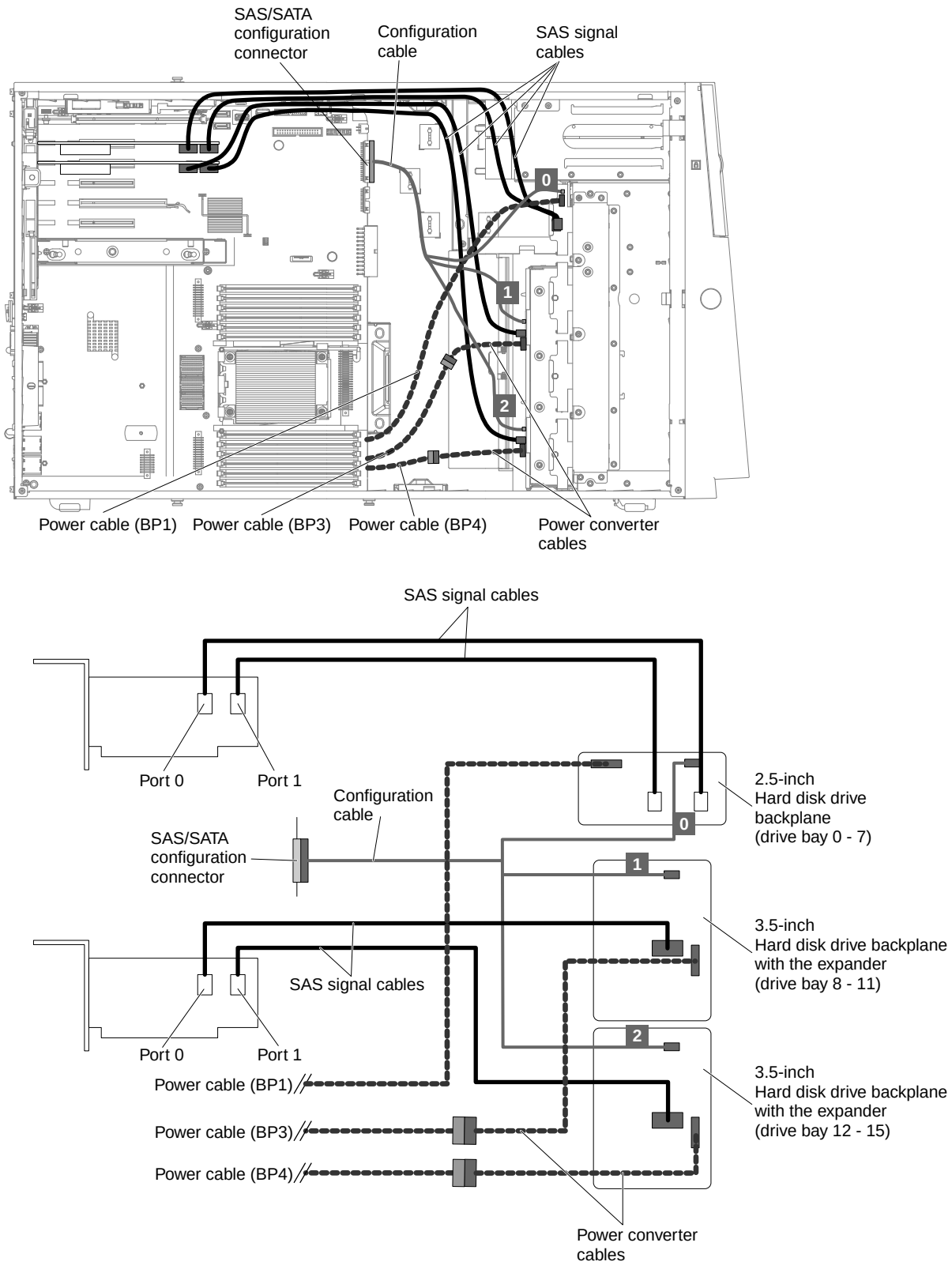



*Figure 255. Server models with eight 2.5-inch hot-swap hard disk drives and eight 3.5-inch hot-swap hard disk drives*

9. For server models with eight 3.5-inch simple-swap hard disk drives.

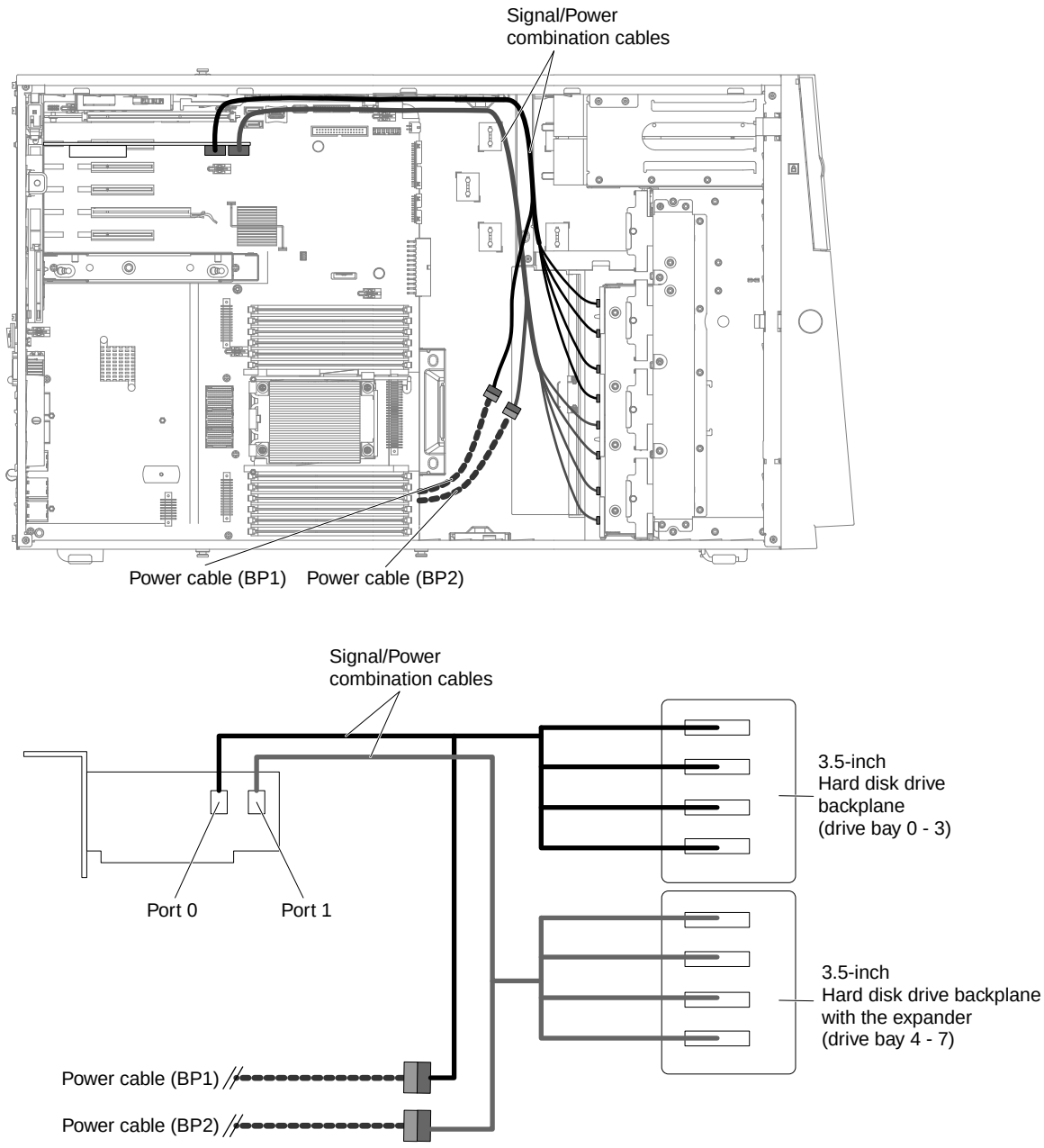



*Figure 256. Server models with eight 3.5-inch simple-swap hard disk drives*

10. For server models with one 2.5-inch simple-swap hard disk drives.

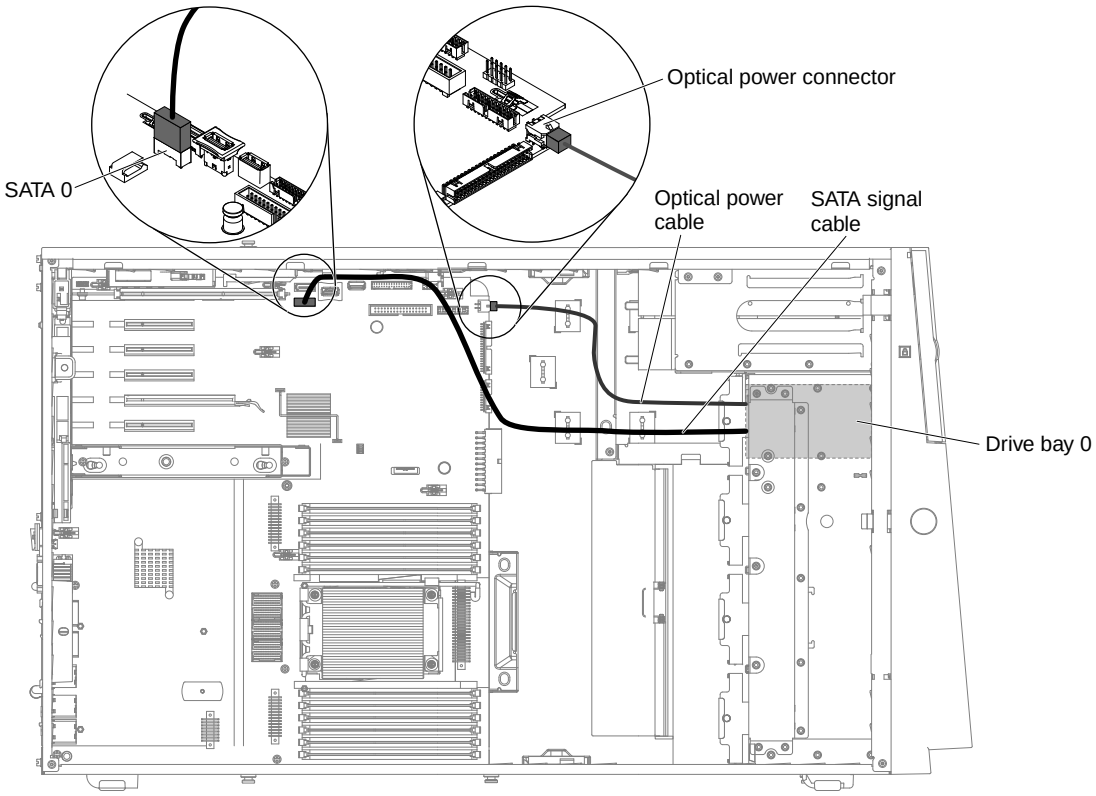



*Figure 257. Server models with one 2.5-inch simple-swap hard disk drives*

## Fan cage power cable connection

The following illustration shows the internal cable routing and connectors from the fan cage assembly to the system board.

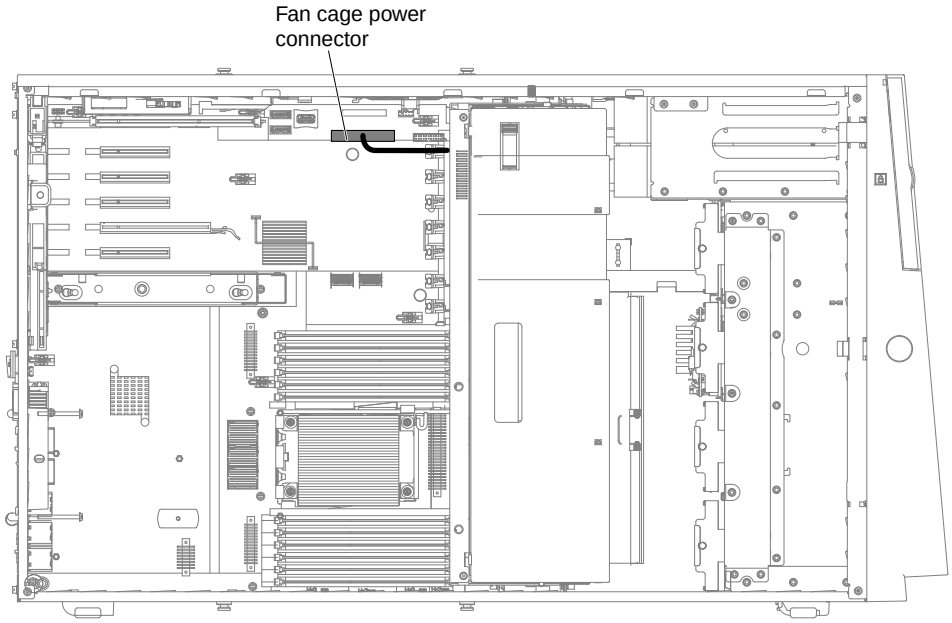



*Figure 258. Internal cable routing and connectors from the fan cage assembly to the system board*

## Left-side cover/power cut-off switch assembly cable connection

The following illustration shows the power cut-off switch assembly cable routing and the connector on the system board.

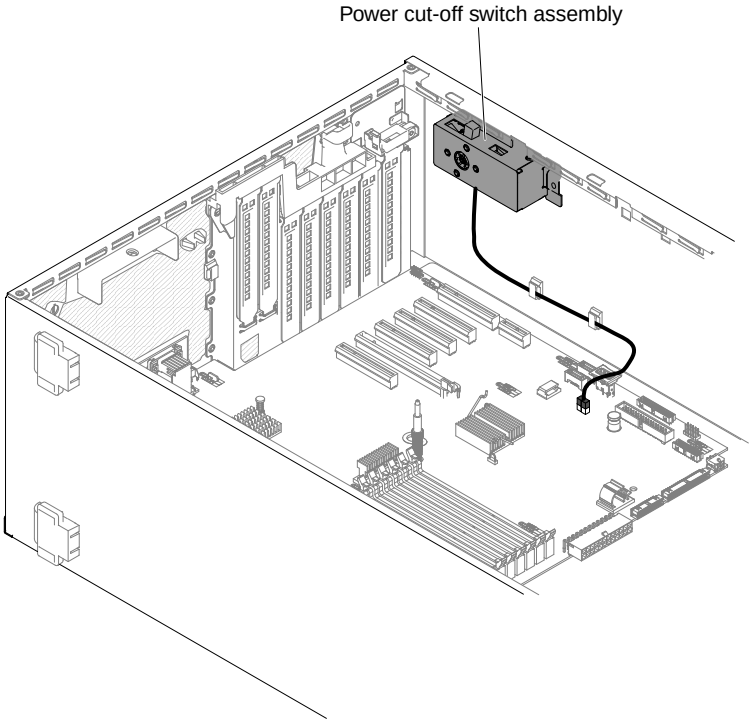



*Figure 259. Power cut-off switch assembly cable routing and the connector on the system board*

# Appendix A. Integrated Management Module II (IMM2) error messages

This section details the Integrated Management Module II (IMM2) error messages.

When a hardware event is detected by the IMM2 on the server, the IMM2 logs that event in the system-event log in the server.

For each event code, the following fields are displayed:

**Event identifier**
A hexadecimal identifier that uniquely identifies an event or class of events. In this documentation, the event identifiers are prefixed with 0x and followed by eight characters.

**Event description**
The logged message string that appears for an event. When the event string is displayed in the event log, information such as a specific component is displayed. In this documentation, that additional information appears as variables, such as [arg1] or [arg2].

**Explanation**
Provides additional information to explain why the event occurred.

**Severity**
An indication of the level of concern for the condition. In the system-event log, severity is abbreviated to the first character. The following severities can be displayed.

**Info:**
The event was recorded for audit purposes, usually a user action or a change of states that is normal behavior.

**Warning:**
The event is not as severe as an error, but if possible, the condition should be corrected before it becomes an error. It might also be a condition that requires additional monitoring or maintenance.

**Error:**
The event is a failure or critical condition that impairs service or an expected function.

**Alert Category**
Similar events are grouped together in categories. The alert category is in the following format:

*severity* - *device*

*severity* is one of the following severity levels:

- **Critical:** A key component in the server is no longer functioning.
- **Warning:** The event might progress to a critical level.
- **System:** The event is the result of a system error or a configuration change.

*device* is the specific device in the server that caused the event to be generated.

**Serviceable**
Specifies whether user action is required to correct the problem.

**CIM Information**

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Provides the prefix of the message ID and the sequence number that is used by the CIM message registry.

**SNMP Trap ID**
The SNMP trap ID that is found in the SNMP alert management information base (MIB).

**Automatically contact Service**
If this field is set to **Yes**, and you have enabled Electronic Service Agent (ESA), Lenovo Support will be notified automatically if the event is generated.

While you wait for Lenovo Support to call, you can perform the recommended actions for the event.

**User response**
Indicates what actions you should perform to solve the event.

Perform the steps listed in this section in the order shown until the problem is solved. After you perform all of the actions that are described in this field, if you cannot solve the problem, contact Lenovo Support.

**Note:** This list includes error codes and messages that might not apply to this machine type and model.

The following is the list of IMM2 error messages and suggested actions to correct the detected server problems. For more information about IMM2, see the *Integrated Management Module II User's Guide* at http://www.ibm.com/support/entry/portal/docdisplay?lndocid=migr-5086346.

## List of IMM events

This section lists all messages that can be sent from the IMM.

- **40000001-00000000 : Management Controller [arg1] Network Initialization Complete.**

  This message is for the use case where a Management Controller network has completed initialization.

  May also be shown as 4000000100000000 or 0x4000000100000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - IMM Network event

  **SNMP Trap ID**
  37

  **CIM Information**
  **Prefix:** IMM **ID:** 0001

  **User Response**
  Information only; no action is required.

- **40000002-00000000 : Certificate Authority [arg1] has detected a [arg2] Certificate Error.**

This message is for the use case when there is an error with an SSL Server, SSL Client, or SSL Trusted CA Certificate.

May also be shown as 4000000200000000 or 0x4000000200000000

**Severity**
Error

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - SSL certification

**SNMP Trap ID**
22

**CIM Information**
**Prefix:** IMM **ID:** 0002

**User Response**
Make sure that the certificate that you are importing is correct and properly generated.

- **40000003-00000000 : Ethernet Data Rate modified from [arg1] to [arg2] by user [arg3].**

This message is for the use case where a user modifies the Ethernet Port data rate.

May also be shown as 4000000300000000 or 0x4000000300000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0003

**User Response**
Information only; no action is required.

- **40000004-00000000 : Ethernet Duplex setting modified from [arg1] to [arg2] by user [arg3].**

This message is for the use case where A user modifies the Ethernet Port duplex setting.

May also be shown as 4000000400000000 or 0x4000000400000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0004

**User Response**
Information only; no action is required.

- **40000005-00000000 : Ethernet MTU setting modified from [arg1] to [arg2] by user [arg3].**

  This message is for the use case where a user modifies the Ethernet Port MTU setting.

  May also be shown as 4000000500000000 or 0x4000000500000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0005

  **User Response**
  Information only; no action is required.

- **40000006-00000000 : Ethernet locally administered MAC address modified from [arg1] to [arg2] by user [arg3].**

  This message is for the use case where a user modifies the Ethernet Port MAC address setting.

  May also be shown as 4000000600000000 or 0x4000000600000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0006

**User Response**
Information only; no action is required.

- **40000007-00000000 : Ethernet interface [arg1] by user [arg2].**

  This message is for the use case where a user enables or disabled the ethernet interface.

  May also be shown as 4000000700000000 or 0x4000000700000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0007

  **User Response**
  Information only; no action is required.

- **40000008-00000000 : Hostname set to [arg1] by user [arg2].**

  This message is for the use case where user modifies the Hostname of a Management Controller.

  May also be shown as 4000000800000000 or 0x4000000800000000

  **Severity**

Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - IMM Network event

**SNMP Trap ID**
37

**CIM Information**
**Prefix:** IMM **ID:** 0008

**User Response**
Information only; no action is required.

- **40000009-00000000 : IP address of network interface modified from [arg1] to [arg2] by user [arg3].**

  This message is for the use case where user modifies the IP address of a Management Controller.

  May also be shown as 4000000900000000 or 0x4000000900000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - IMM Network event

  **SNMP Trap ID**
  37

  **CIM Information**
  **Prefix:** IMM **ID:** 0009

  **User Response**
  Information only; no action is required.

- **4000000a-00000000 : IP subnet mask of network interface modified from [arg1] to [arg2] by user [arg3].**

  This message is for the use case where a user modifies the IP subnet mask of a Management Controller.

  May also be shown as 4000000a00000000 or 0x4000000a00000000

  **Severity**
  Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0010

**User Response**
Information only; no action is required.

- **4000000b-00000000 : IP address of default gateway modified from [arg1] to [arg2] by user [arg3].**

  This message is for the use case where a user modifies the default gateway IP address of a Management Controller.

  May also be shown as 4000000b00000000 or 0x4000000b00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0011

  **User Response**
  Information only; no action is required.

- **4000000c-00000000 : OS Watchdog response [arg1] by [arg2] .**

  This message is for the use case where an OS Watchdog has been enabled or disabled by a user.

  May also be shown as 4000000c00000000 or 0x4000000c00000000

  **Severity**
  Warning

  **Serviceable**
  No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0012

**User Response**
Information only; no action is required.

- **4000000d-00000000 : DHCP[[arg1]] failure, no IP address assigned.**

  This message is for the use case where a DHCP server fails to assign an IP address to a Management Controller.

  May also be shown as 4000000d00000000 or 0x4000000d00000000

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0013

  **User Response**
  Complete the following steps until the problem is solved:

  1. Make sure that the IMM network cable is connected.
  2. Make sure that there is a DHCP server on the network that can assign an IP address to the IMM.

- **4000000e-00000000 : Remote Login Successful. Login ID: [arg1] from [arg2] at IP address [arg3].**

  This message is for the use case where a user successfully logs in to a Management Controller.

  May also be shown as 4000000e00000000 or 0x4000000e00000000

  **Severity**
  Info

  **Serviceable**

No

**Automatically notify support**
No

**Alert Category**
System - Remote Login

**SNMP Trap ID**
30

**CIM Information**
**Prefix:** IMM **ID:** 0014

**User Response**
Information only; no action is required.

- **4000000f-00000000 : Attempting to [arg1] server [arg2] by user [arg3].**

  This message is for the use case where a user is using the Management Controller to perform a power function on the system.

  May also be shown as 4000000f00000000 or 0x4000000f00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0015

  **User Response**
  Information only; no action is required.

- **40000010-00000000 : Security: Userid: [arg1] had [arg2] login failures from WEB client at IP address [arg3].**

  This message is for the use case where a user has failed to log in to a Management Controller from a web browser.

  May also be shown as 4000001000000000 or 0x4000001000000000

  **Severity**
  Warning

  **Serviceable**

No

**Automatically notify support**
No

**Alert Category**
System - Remote Login

**SNMP Trap ID**
30

**CIM Information**
**Prefix:** IMM **ID:** 0016

**User Response**
Complete the following steps until the problem is solved:

1. Make sure that the correct login ID and password are being used.
2. Have the system administrator reset the login ID or password.

- **40000011-00000000 : Security: Login ID: [arg1] had [arg2] login failures from CLI at [arg3].**

  This message is for the use case where a user has failed to log in to a Management Controller from the Legacy CLI.

  May also be shown as 4000001100000000 or 0x4000001100000000

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Remote Login

  **SNMP Trap ID**
  30

  **CIM Information**
  **Prefix:** IMM **ID:** 0017

  **User Response**
  Complete the following steps until the problem is solved:

  1. Make sure that the correct login ID and password are being used.
  2. Have the system administrator reset the login ID or password.

- **40000012-00000000 : Remote access attempt failed. Invalid userid or password received. Userid is [arg1] from WEB browser at IP address [arg2].**

  This message is for the use case where a remote user has failed to establish a remote control session from a Web browser session.

  May also be shown as 4000001200000000 or 0x4000001200000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Remote Login

**SNMP Trap ID**
30

**CIM Information**
**Prefix:** IMM **ID:** 0018

**User Response**
Make sure that the correct login ID and password are being used.

- **40000013-00000000 : Remote access attempt failed. Invalid userid or password received. Userid is [arg1] from TELNET client at IP address [arg2].**

  This message is for the use case where a user has failed to log in to a Management Controller from a telnet session.

  May also be shown as 4000001300000000 or 0x4000001300000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Remote Login

  **SNMP Trap ID**
  30

  **CIM Information**
  **Prefix:** IMM **ID:** 0019

  **User Response**
  Make sure that the correct login ID and password are being used.

- **40000014-00000000 : The [arg1] on system [arg2] cleared by user [arg3].**

  This message is for the use case where a Management Controller Event Log on a system is cleared by a user.

  May also be shown as 4000001400000000 or 0x4000001400000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0020

**User Response**
Information only; no action is required.

- **40000015-00000000 : Management Controller [arg1] reset was initiated by user [arg2].**

  This message is for the use case where a Management Controller reset is initiated by a user.

  May also be shown as 4000001500000000 or 0x4000001500000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0021

  **User Response**
  Information only; no action is required.

- **40000016-00000000 : ENET[[arg1]] DHCP-HSTN=[arg2], DN=[arg3], IP@=[arg4], SN=[arg5], GW@=[arg6], DNS1@=[arg7] .**

  This message is for the use case where a Management Controller IP address and configuration has been assigned by the DHCP server.

  May also be shown as 4000001600000000 or 0x4000001600000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0022

**User Response**
Information only; no action is required.

- **40000017-00000000 : ENET[[arg1]] IP-Cfg:HstName=[arg2], IP@=[arg3] ,NetMsk=[arg4], GW@=[arg5] .**

  This message is for the use case where a Management Controller IP address and configuration has been assigned statically using user data.

  May also be shown as 4000001700000000 or 0x4000001700000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0023

  **User Response**
  Information only; no action is required.

- **40000018-00000000 : LAN: Ethernet[[arg1]] interface is no longer active.**

  This message is for the use case where a Management Controller ethernet interface is no longer active.

  May also be shown as 4000001800000000 or 0x4000001800000000

  **Severity**

Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0024

**User Response**
Information only; no action is required.

- **40000019-00000000 : LAN: Ethernet[[arg1]] interface is now active.**

  This message is for the use case where a Management Controller ethernet interface is now active.

  May also be shown as 4000001900000000 or 0x4000001900000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0025

  **User Response**
  Information only; no action is required.

- **4000001a-00000000 : DHCP setting changed to [arg1] by user [arg2].**

  This message is for the use case where a user changes the DHCP setting.

  May also be shown as 4000001a00000000 or 0x4000001a00000000

  **Severity**
  Info

  **Serviceable**

No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0026

**User Response**
Information only; no action is required.

- **4000001b-00000000 : Management Controller [arg1]: Configuration restored from a file by user [arg2].**

  This message is for the use case where a user restores a Management Controller configuration from a file.

  May also be shown as 4000001b00000000 or 0x4000001b00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0027

  **User Response**
  Information only; no action is required.

- **4000001c-00000000 : Watchdog [arg1] Screen Capture Occurred .**

  This message is for the use case where an operating system error has occurred and the screen was captured.

  May also be shown as 4000001c00000000 or 0x4000001c00000000

  **Severity**
  Info

  **Serviceable**
  No

**Automatically notify support**
No

**Alert Category**
System - other

**SNMP Trap ID**
22

**CIM Information**
**Prefix:** IMM **ID:** 0028

**User Response**
If there was no operating-system error, complete the following steps until the problem is solved:

1. Reconfigure the watchdog timer to a higher value.
2. Make sure that the IMM Ethernet-over-USB interface is enabled.
3. Reinstall the RNDIS or cdc_ether device driver for the operating system.
4. Disable the watchdog.

If there was an operating-system error, check the integrity of the installed operating system.

- **4000001d-00000000 : Watchdog [arg1] Failed to Capture Screen.**

This message is for the use case where an operating system error has occurred and the screen capture failed.

May also be shown as 4000001d00000000 or 0x4000001d00000000

**Severity**
Error

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - other

**SNMP Trap ID**
22

**CIM Information**
**Prefix:** IMM **ID:** 0029

**User Response**
Complete the following steps until the problem is solved:

1. Reconfigure the watchdog timer to a higher value.
2. Make sure that the IMM Ethernet over USB interface is enabled.
3. Reinstall the RNDIS or cdc_ether device driver for the operating system.
4. Disable the watchdog. Check the integrity of the installed operating system.
5. Update the IMM firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.

- **4000001e-00000000 : Running the backup Management Controller [arg1] main application.**

  This message is for the use case where a Management Controller has resorted to running the backup main application.

  May also be shown as 4000001e00000000 or 0x4000001e00000000

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** IMM **ID:** 0030

  **User Response**
  Update the IMM firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.

- **4000001f-00000000 : Please ensure that the Management Controller [arg1] is flashed with the correct firmware. The Management Controller is unable to match its firmware to the server.**

  This message is for the use case where a Management Controller firmware version does not match the server.

  May also be shown as 4000001f00000000 or 0x4000001f00000000

  **Severity**
  Error

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** IMM **ID:** 0031

  **User Response**

Update the IMM firmware to a version that the server supports. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.

- **40000020-00000000 : Management Controller [arg1] Reset was caused by restoring default values.**

  This message is for the use case where a Management Controller has been reset due to a user restoring the configuration to default values.

  May also be shown as 4000002000000000 or 0x4000002000000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0032

  **User Response**
  Information only; no action is required.

- **40000021-00000000 : Management Controller [arg1] clock has been set from NTP server [arg2].**

  This message is for the use case where a Management Controller clock has been set from the Network Time Protocol server.

  May also be shown as 4000002100000000 or 0x4000002100000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0033

**User Response**
Information only; no action is required.

- **40000022-00000000 : SSL data in the Management Controller [arg1] configuruation data is invalid. Clearing configuration data region and disabling SSL.**

  This message is for the use case where a Management Controller has detected invalid SSL data in the configuration data and is clearing the configuration data region and disabling the SSL.

  May also be shown as 4000002200000000 or 0x4000002200000000

  **Severity**
  Error

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** IMM **ID:** 0034

  **User Response**
  Complete the following steps until the problem is solved:

  1. Make sure that the certificate that you are importing is correct.
  2. Try to import the certificate again.

- **40000023-00000000 : Flash of [arg1] from [arg2] succeeded for user [arg3] .**

  This message is for the use case where a user has successfully flashed the firmware component (MC Main Application, MC Boot ROM, BIOS, Diagnostics, System Power Backplane, Remote Expansion Enclosure Power Backplane, Integrated System Management Processor, or Remote Expansion Enclosure Processor) from the interface and IP address ( %d.

  May also be shown as 4000002300000000 or 0x4000002300000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0035

**User Response**
Information only; no action is required.

- **40000024-00000000 : Flash of [arg1] from [arg2] failed for user [arg3].**

  This message is for the use case where a user has not flashed the firmware component from the interface and IP address due to a failure.

  May also be shown as 4000002400000000 or 0x4000002400000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** IMM **ID:** 0036

  **User Response**
  Information only; no action is required.

- **40000025-00000000 : The [arg1] on system [arg2] is 75% full.**

  This message is for the use case where a Management Controller Event Log on a system is 75% full.

  May also be shown as 4000002500000000 or 0x4000002500000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Event Log 75% full

  **SNMP Trap ID**
  35

**CIM Information**
**Prefix:** IMM **ID:** 0037

**User Response**
Information only; no action is required.

- **40000026-00000000 : The [arg1] on system [arg2] is 100% full.**

This message is for the use case where a Management Controller Event Log on a system is 100% full.

May also be shown as 4000002600000000 or 0x4000002600000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Event Log 75% full

**SNMP Trap ID**
35

**CIM Information**
**Prefix:** IMM **ID:** 0038

**User Response**
To avoid losing older log entries, save the log as a text file and clear the log.

- **40000027-00000000 : Platform Watchdog Timer expired for [arg1].**

This message is for the use case when an implementation has detected a Platform Watchdog Timer Expired

May also be shown as 4000002700000000 or 0x4000002700000000

**Severity**
Error

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - OS Timeout

**SNMP Trap ID**
21

**CIM Information**
**Prefix:** IMM **ID:** 0039

**User Response**
Complete the following steps until the problem is solved:

1. Reconfigure the watchdog timer to a higher value.
2. Make sure that the IMM Ethernet-over-USB interface is enabled.
3. Reinstall the RNDIS or cdc_ether device driver for the operating system.
4. Disable the watchdog.
5. Check the integrity of the installed operating system.

- **40000028-00000000 : Management Controller Test Alert Generated by [arg1].**

  This message is for the use case where a user has generated a Test Alert.

  May also be shown as 4000002800000000 or 0x4000002800000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** IMM **ID:** 0040

  **User Response**
  Information only; no action is required.

- **40000029-00000000 : Security: Userid: [arg1] had [arg2] login failures from an SSH client at IP address [arg3].**

  This message is for the use case where a user has failed to log in to a Management Controller from SSH.

  May also be shown as 4000002900000000 or 0x4000002900000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Remote Login

**SNMP Trap ID**
30

**CIM Information**
**Prefix:** IMM **ID:** 0041

**User Response**
Complete the following steps until the problem is solved:

1. Make sure that the correct login ID and password are being used.
2. Have the system administrator reset the login ID or password.

- **4000002a-00000000 : [arg1] firmware mismatch internal to system [arg2]. Please attempt to flash the [arg3] firmware.**

  This message is for the use case where a specific type of firmware mismatch has been detected.

  May also be shown as 4000002a00000000 or 0x4000002a00000000

  **Severity**
  Error

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** IMM **ID:** 0042

  **User Response**
  Reflash the IMM firmware to the latest version.

- **4000002b-00000000 : Domain name set to [arg1].**

  Domain name set by user

  May also be shown as 4000002b00000000 or 0x4000002b00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**

none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0043

**User Response**
Information only; no action is required.

- **4000002c-00000000 : Domain Source changed to [arg1] by user [arg2].**

Domain source changed by user

May also be shown as 4000002c00000000 or 0x4000002c00000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0044

**User Response**
Information only; no action is required.

- **4000002d-00000000 : DDNS setting changed to [arg1] by user [arg2].**

DDNS setting changed by user

May also be shown as 4000002d00000000 or 0x4000002d00000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0045

**User Response**
Information only; no action is required.

- **4000002e-00000000 : DDNS registration successful. The domain name is [arg1].**

DDNS registation and values

May also be shown as 4000002e00000000 or 0x4000002e00000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0046

**User Response**
Information only; no action is required.

- **4000002f-00000000 : IPv6 enabled by user [arg1] .**

IPv6 protocol is enabled by user

May also be shown as 4000002f00000000 or 0x4000002f00000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**

**Prefix:** IMM **ID:** 0047

**User Response**
Information only; no action is required.

- **40000030-00000000 : IPv6 disabled by user [arg1] .**

IPv6 protocol is disabled by user

May also be shown as 4000003000000000 or 0x4000003000000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0048

**User Response**
Information only; no action is required.

- **40000031-00000000 : IPv6 static IP configuration enabled by user [arg1].**

IPv6 static address assignment method is enabled by user

May also be shown as 4000003100000000 or 0x4000003100000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0049

**User Response**

Information only; no action is required.

- **40000032-00000000 : IPv6 DHCP enabled by user [arg1].**

  IPv6 DHCP assignment method is enabled by user

  May also be shown as 4000003200000000 or 0x4000003200000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0050

  **User Response**
  Information only; no action is required.

- **40000033-00000000 : IPv6 stateless auto-configuration enabled by user [arg1].**

  IPv6 statless auto-assignment method is enabled by user

  May also be shown as 4000003300000000 or 0x4000003300000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0051

  **User Response**
  Information only; no action is required.

- **40000034-00000000 : IPv6 static IP configuration disabled by user [arg1].**

  IPv6 static assignment method is disabled by user

  May also be shown as 4000003400000000 or 0x4000003400000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0052

  **User Response**
  Information only; no action is required.

- **40000035-00000000 : IPv6 DHCP disabled by user [arg1].**

  IPv6 DHCP assignment method is disabled by user

  May also be shown as 4000003500000000 or 0x4000003500000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0053

  **User Response**
  Information only; no action is required.

- **40000036-00000000 : IPv6 stateless auto-configuration disabled by user [arg1].**

IPv6 statless auto-assignment method is disabled by user

May also be shown as 4000003600000000 or 0x4000003600000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0054

**User Response**
Information only; no action is required.

- **40000037-00000000 : ENET[[arg1]] IPv6-LinkLocal:HstName=[arg2], IP@=[arg3] ,Pref=[arg4] .**

  IPv6 Link Local address is active

  May also be shown as 4000003700000000 or 0x4000003700000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0055

  **User Response**
  Information only; no action is required.

- **40000038-00000000 : ENET[[arg1]] IPv6-Static:HstName=[arg2], IP@=[arg3] ,Pref=[arg4], GW@=[arg5] .**

  IPv6 Static address is active

May also be shown as 4000003800000000 or 0x4000003800000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0056

**User Response**
Information only; no action is required.

- **40000039-00000000 : ENET[[arg1]] DHCPv6-HSTN=[arg2], DN=[arg3], IP@=[arg4], Pref=[arg5].**

  IPv6 DHCP-assigned address is active

  May also be shown as 4000003900000000 or 0x4000003900000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0057

  **User Response**
  Information only; no action is required.

- **4000003a-00000000 : IPv6 static address of network interface modified from [arg1] to [arg2] by user [arg3].**

  A user modifies the IPv6 static address of a Management Controller

  May also be shown as 4000003a00000000 or 0x4000003a00000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0058

**User Response**
Information only; no action is required.

- **4000003b-00000000 : DHCPv6 failure, no IP address assigned.**

S DHCP6 server fails to assign an IP address to a Management Controller.

May also be shown as 4000003b00000000 or 0x4000003b00000000

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0059

**User Response**
Complete the following steps until the problem is solved:

1. Make sure that the IMM network cable is connected.
2. Make sure that there is a DHCPv6 server on the network that can assign an IP address to the IMM.

- **4000003c-00000000 : Platform Watchdog Timer expired for [arg1].**

An implementation has detected an OS Loader Watchdog Timer Expired

May also be shown as 4000003c00000000 or 0x4000003c00000000

**Severity**
Error

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Loader timeout

**SNMP Trap ID**
26

**CIM Information**
**Prefix:** IMM **ID:** 0060

**User Response**

1. Reconfigure the watchdog timer to a higher value.
2. Make sure that the IMM Ethernet over USB interface is enabled.
3. Reinstall the RNDIS or cdc_ether device driver for the operating system.
4. Disable the watchdog.
5. Check the integrity of the installed operating system.

- **4000003d-00000000 : Telnet port number changed from [arg1] to [arg2] by user [arg3].**

A user has modified the telnet port number

May also be shown as 4000003d00000000 or 0x4000003d00000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0061

**User Response**
Information only; no action is required.

- **4000003e-00000000 : SSH port number changed from [arg1] to [arg2] by user [arg3].**

  A user has modified the SSH port number

  May also be shown as 4000003e00000000 or 0x4000003e00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0062

  **User Response**
  Information only; no action is required.

- **4000003f-00000000 : Web-HTTP port number changed from [arg1] to [arg2] by user [arg3].**

  A user has modified the Web HTTP port number

  May also be shown as 4000003f00000000 or 0x4000003f00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0063

  **User Response**
  Information only; no action is required.

- **40000040-00000000 : Web-HTTPS port number changed from [arg1] to [arg2] by user [arg3].**

A user has modified the Web HTTPS port number

May also be shown as 4000004000000000 or 0x4000004000000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0064

**User Response**
Information only; no action is required.

- **40000041-00000000 : CIM/XML HTTP port number changed from [arg1] to [arg2] by user [arg3].**

  A user has modified the CIM HTTP port number

  May also be shown as 4000004100000000 or 0x4000004100000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0065

  **User Response**
  Information only; no action is required.

- **40000042-00000000 : CIM/XML HTTPS port number changed from [arg1] to [arg2] by user [arg3].**

  A user has modified the CIM HTTPS port number

  May also be shown as 4000004200000000 or 0x4000004200000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0066

**User Response**
Information only; no action is required.

- **40000043-00000000 : SNMP Agent port number changed from [arg1] to [arg2] by user [arg3].**

  A user has modified the SNMP Agent port number

  May also be shown as 4000004300000000 or 0x4000004300000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0067

  **User Response**
  Information only; no action is required.

- **40000044-00000000 : SNMP Traps port number changed from [arg1] to [arg2] by user [arg3].**

  A user has modified the SNMP Traps port number

  May also be shown as 4000004400000000 or 0x4000004400000000

  **Severity**

Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0068

**User Response**
Information only; no action is required.

- **40000045-00000000 : Syslog port number changed from [arg1] to [arg2] by user [arg3].**

  A user has modified the Syslog receiver port number

  May also be shown as 4000004500000000 or 0x4000004500000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0069

  **User Response**
  Information only; no action is required.

- **40000046-00000000 : Remote Presence port number changed from [arg1] to [arg2] by user [arg3].**

  A user has modified the Remote Presence port number

  May also be shown as 4000004600000000 or 0x4000004600000000

  **Severity**
  Info

  **Serviceable**

No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0070

**User Response**
Information only; no action is required.

- **40000047-00000000 : LED [arg1] state changed to [arg2] by [arg3].**

  A user has modified the state of an LED

  May also be shown as 4000004700000000 or 0x4000004700000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0071

  **User Response**
  Information only; no action is required.

- **40000048-00000000 : Inventory data changed for device [arg1], new device data hash=[arg2], new master data hash=[arg3] .**

  Something has caused the physical inventory to change

  May also be shown as 4000004800000000 or 0x4000004800000000

  **Severity**
  Info

  **Serviceable**
  No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0072

**User Response**
Information only; no action is required.

- **40000049-00000000 : SNMP [arg1] enabled by user [arg2] .**

A user enabled SNMPv1 or SNMPv3 or Traps

May also be shown as 4000004900000000 or 0x4000004900000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0073

**User Response**
Information only; no action is required.

- **4000004a-00000000 : SNMP [arg1] disabled by user [arg2] .**

A user disabled SNMPv1 or SNMPv3 or Traps

May also be shown as 4000004a00000000 or 0x4000004a00000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0074

**User Response**
Information only; no action is required.

- **4000004b-00000000 : SNMPv1 [arg1] set by user [arg2]: Name=[arg3], AccessType=[arg4], Address=[arg5], .**

  A user changed the SNMP community string

  May also be shown as 4000004b00000000 or 0x4000004b00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0075

  **User Response**
  Information only; no action is required.

- **4000004c-00000000 : LDAP Server configuration set by user [arg1]: SelectionMethod=[arg2], DomainName=[arg3], Server1=[arg4], Server2=[arg5], Server3=[arg6], Server4=[arg7].**

  A user changed the LDAP server configuration

  May also be shown as 4000004c00000000 or 0x4000004c00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**

none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0076

**User Response**
Information only; no action is required.

- **4000004d-00000000 : LDAP set by user [arg1]: RootDN=[arg2], UIDSearchAttribute=[arg3], BindingMethod=[arg4], EnhancedRBS=[arg5], TargetName=[arg6], GroupFilter=[arg7], GroupAttribute=[arg8], LoginAttribute=[arg9].**

  A user configured an LDAP Miscellaneous setting

  May also be shown as 4000004d00000000 or 0x4000004d00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0077

  **User Response**
  Information only; no action is required.

- **4000004e-00000000 : Serial Redirection set by user [arg1]: Mode=[arg2], BaudRate=[arg3], StopBits=[arg4], Parity=[arg5], SessionTerminateSequence=[arg6].**

  A user configured the Serial Port mode

  May also be shown as 4000004e00000000 or 0x4000004e00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**

none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0078

**User Response**
Information only; no action is required.

- **4000004f-00000000 : Date and Time set by user [arg1]: Date=[arg2], Time-[arg3], DST Auto-adjust=[arg4], Timezone=[arg5].**

  A user configured the Date and Time settings

  May also be shown as 4000004f00000000 or 0x4000004f00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0079

  **User Response**
  Information only; no action is required.

- **40000050-00000000 : Server General Settings set by user [arg1]: Name=[arg2], Contact=[arg3], Location=[arg4], Room=[arg5], RackID=[arg6], Rack U-position=[arg7].**

  A user configured the Location setting

  May also be shown as 4000005000000000 or 0x4000005000000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0080

**User Response**
Information only; no action is required.

- **40000051-00000000 : Server Power Off Delay set to [arg1] by user [arg2].**

A user configured the Server Power Off Delay

May also be shown as 4000005100000000 or 0x4000005100000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0081

**User Response**
Information only; no action is required.

- **40000052-00000000 : Server [arg1] scheduled for [arg2] at [arg3] by user [arg4].**

A user configured a Server Power action at a specific time

May also be shown as 4000005200000000 or 0x4000005200000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0082

**User Response**
Information only; no action is required.

- **40000053-00000000 : Server [arg1] scheduled for every [arg2] at [arg3] by user [arg4].**

A user configured a recurring Server Power Action

May also be shown as 4000005300000000 or 0x4000005300000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0083

**User Response**
Information only; no action is required.

- **40000054-00000000 : Server [arg1] [arg2] cleared by user [arg3].**

A user cleared a Server Power Action.

May also be shown as 4000005400000000 or 0x4000005400000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0084

**User Response**
Information only; no action is required.

- **40000055-00000000 : Synchronize time setting by user [arg1]: Mode=[arg2], NTPServerHost=[arg3]:[arg4],NTPUpdateFrequency=[arg5].**

  A user configured the Date and Time synchronize settings

  May also be shown as 4000005500000000 or 0x4000005500000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0085

  **User Response**
  Information only; no action is required.

- **40000056-00000000 : SMTP Server set by user [arg1] to [arg2]:[arg3].**

  A user configured the SMTP server

  May also be shown as 4000005600000000 or 0x4000005600000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0086

  **User Response**
  Information only; no action is required.

- **40000057-00000000 : Telnet [arg1] by user [arg2].**

  A user enables or disables Telnet services

  May also be shown as 4000005700000000 or 0x4000005700000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0087

  **User Response**
  Information only; no action is required.

- **40000058-00000000 : DNS servers set by user [arg1]: UseAdditionalServers=[arg2], PreferredDNStype=[arg3], IPv4Server1=[arg4], IPv4Server2=[arg5], IPv4Server3=[arg6], IPv6Server1=[arg7], IPv6Server2=[arg8], IPv6Server3=[arg9].**

  A user configures the DNS servers

  May also be shown as 4000005800000000 or 0x4000005800000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0088

  **User Response**
  Information only; no action is required.

- **40000059-00000000 : LAN over USB [arg1] by user [arg2].**

  A user configured USB-LAN

  May also be shown as 4000005900000000 or 0x4000005900000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0089

  **User Response**
  Information only; no action is required.

- **4000005a-00000000 : LAN over USB Port Forwarding set by user [arg1]: ExternalPort=[arg2], USB-LAN port=[arg3].**

  A user configured USB-LAN port forwarding

  May also be shown as 4000005a00000000 or 0x4000005a00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0090

  **User Response**
  Information only; no action is required.

- **4000005b-00000000 : Secure Web services (HTTPS) [arg1] by user [arg2].**

A user enables or disables Secure web services

May also be shown as 4000005b00000000 or 0x4000005b00000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0091

**User Response**
Information only; no action is required.

- **4000005c-00000000 : Secure CIM/XML(HTTPS) [arg1] by user [arg2].**

  A user enables or disables Secure CIM/XML services

  May also be shown as 4000005c00000000 or 0x4000005c00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0092

  **User Response**
  Information only; no action is required.

- **4000005d-00000000 : Secure LDAP [arg1] by user [arg2].**

  A user enables or disables Secure LDAP services

  May also be shown as 4000005d00000000 or 0x4000005d00000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0093

**User Response**
Information only; no action is required.

- **4000005e-00000000 : SSH [arg1] by user [arg2].**

  A user enables or disables SSH services

  May also be shown as 4000005e00000000 or 0x4000005e00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0094

  **User Response**
  Information only; no action is required.

- **4000005f-00000000 : Server timeouts set by user [arg1]: EnableOSWatchdog=[arg2], OSWatchdogTimout=[arg3], EnableLoaderWatchdog=[arg4], LoaderTimeout=[arg5].**

  A user configures Server Timeouts

  May also be shown as 4000005f00000000 or 0x4000005f00000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0095

**User Response**
Information only; no action is required.

- **40000060-00000000 : License key for [arg1] added by user [arg2].**

  A user installs License Key

  May also be shown as 4000006000000000 or 0x4000006000000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0096

  **User Response**
  Information only; no action is required.

- **40000061-00000000 : License key for [arg1] removed by user [arg2].**

  A user removes a License Key

  May also be shown as 4000006100000000 or 0x4000006100000000

  **Severity**
  Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0097

**User Response**
Information only; no action is required.

- **40000062-00000000 : Global Login General Settings set by user [arg1]: AuthenticationMethod=[arg2], LockoutPeriod=[arg3], SessionTimeout=[arg4].**

  A user changes the Global Login General Settings

  May also be shown as 4000006200000000 or 0x4000006200000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0098

  **User Response**
  Information only; no action is required.

- **40000063-00000000 : Global Login Account Security set by user [arg1]: PasswordRequired=[arg2], PasswordExpirationPeriod=[arg3], MinimumPasswordReuseCycle=[arg4], MinimumPasswordLength=[arg5], MinimumPasswordChangeInterval=[arg6], MaxmumLoginFailures=[arg7], LockoutAfterMaxFailures=[arg8], MinimumDifferentCharacters=[arg9], DefaultIDExpired=[arg10], ChangePasswordFirstAccess=[arg11].**

  A user changes the Global Login Account Security Settings to Legacy

  May also be shown as 4000006300000000 or 0x4000006300000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0099

**User Response**
Information only; no action is required.

- **40000064-00000000 : User [arg1] created.**

A user account was created

May also be shown as 4000006400000000 or 0x4000006400000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0100

**User Response**
Information only; no action is required.

- **40000065-00000000 : User [arg1] removed.**

A user account was deleted

May also be shown as 4000006500000000 or 0x4000006500000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0101

**User Response**
Information only; no action is required.

- **40000066-00000000 : User [arg1] password modified.**

A user account was changed

May also be shown as 4000006600000000 or 0x4000006600000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0102

**User Response**
Information only; no action is required.

- **40000067-00000000 : User [arg1] role set to [arg2].**

A user account role assigned

May also be shown as 4000006700000000 or 0x4000006700000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0103

**User Response**
Information only; no action is required.

- **40000068-00000000 : User [arg1] custom privileges set: [arg2].**

User account priveleges assigned

May also be shown as 4000006800000000 or 0x4000006800000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0104

**User Response**
Information only; no action is required.

- **40000069-00000000 : User [arg1] for SNMPv3 set: AuthenticationProtocol=[arg2], PrivacyProtocol=[arg3], AccessType=[arg4], HostforTraps=[arg5].**

User account SNMPv3 settings changed

May also be shown as 4000006900000000 or 0x4000006900000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0105

**User Response**
Information only; no action is required.

- **4000006a-00000000 : SSH Client key added for user [arg1].**

  User locally defined an SSH Client key

  May also be shown as 4000006a00000000 or 0x4000006a00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0106

  **User Response**
  Information only; no action is required.

- **4000006b-00000000 : SSH Client key imported for user [arg1] from [arg2].**

  User imported an SSH Client key

  May also be shown as 4000006b00000000 or 0x4000006b00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0107

**User Response**
Information only; no action is required.

- **4000006c-00000000 : SSH Client key removed from user [arg1].**

  User removed an SSH Client key

  May also be shown as 4000006c00000000 or 0x4000006c00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0108

  **User Response**
  Information only; no action is required.

- **4000006d-00000000 : Management Controller [arg1]: Configuration saved to a file by user [arg2].**

  A user saves a Management Controller configuration to a file.

  May also be shown as 4000006d00000000 or 0x4000006d00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0109

**User Response**
Information only; no action is required.

- **4000006e-00000000 : Alert Configuration Global Event Notification set by user [arg1]: RetryLimit=[arg2], RetryInterval=[arg3], EntryInterval=[arg4].**

  A user changes the Global Event Notification settings.

  May also be shown as 4000006e00000000 or 0x4000006e00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0110

  **User Response**
  Information only; no action is required.

- **4000006f-00000000 : Alert Recipient Number [arg1] updated: Name=[arg2], DeliveryMethod=[arg3], Address=[arg4], IncludeLog=[arg5], Enabled=[arg6], EnabledAlerts=[arg7], AllowedFilters=[arg8].**

  A user adds or updates an Alert Recipient

  May also be shown as 4000006f00000000 or 0x4000006f00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**

**Prefix:** IMM **ID:** 0111

**User Response**
Information only; no action is required.

- **40000070-00000000 : SNMP Traps enabled by user [arg1]: EnabledAlerts=[arg2], AllowedFilters=[arg3] .**

  A user enabled the SNMP Traps configuration

  May also be shown as 4000007000000000 or 0x4000007000000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0112

  **User Response**
  Information only; no action is required.

- **40000071-00000000 : The power cap value changed from [arg1] watts to [arg2] watts by user [arg3].**

  Power Cap values changed by user

  May also be shown as 4000007100000000 or 0x4000007100000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0113

**User Response**
Information only; no action is required.

- **40000072-00000000 : The minimum power cap value changed from [arg1] watts to [arg2] watts.**

Minimum Power Cap value changed

May also be shown as 4000007200000000 or 0x4000007200000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0114

**User Response**
Information only; no action is required.

- **40000073-00000000 : The maximum power cap value changed from [arg1] watts to [arg2] watts.**

Maximum Power Cap value changed

May also be shown as 4000007300000000 or 0x4000007300000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0115

**User Response**
Information only; no action is required.

- **40000074-00000000 : The soft minimum power cap value changed from [arg1] watts to [arg2] watts.**

  Soft Minimum Power Cap value changed

  May also be shown as 4000007400000000 or 0x4000007400000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0116

  **User Response**
  Information only; no action is required.

- **40000075-00000000 : The measured power value exceeded the power cap value.**

  Power exceeded cap

  May also be shown as 4000007500000000 or 0x4000007500000000

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Power

  **SNMP Trap ID**
  164

  **CIM Information**
  **Prefix:** IMM **ID:** 0117

  **User Response**
  Information only; no action is required.

- **40000076-00000000 : The new minimum power cap value exceeded the power cap value.**

Minimum Power Cap exceeds Power Cap

May also be shown as 4000007600000000 or 0x4000007600000000

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Warning - Power

**SNMP Trap ID**
164

**CIM Information**
**Prefix:** IMM **ID:** 0118

**User Response**
Information only; no action is required.

- **40000077-00000000 : Power capping was activated by user [arg1].**

Power capping activated by user

May also be shown as 4000007700000000 or 0x4000007700000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0119

**User Response**
Information only; no action is required.

- **40000078-00000000 : Power capping was deactivated by user [arg1].**

Power capping deactivated by user

May also be shown as 4000007800000000 or 0x4000007800000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0120

**User Response**
Information only; no action is required.

- **40000079-00000000 : Static Power Savings mode has been turned on by user [arg1].**

Static Power Savings mode turned on by user

May also be shown as 4000007900000000 or 0x4000007900000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0121

**User Response**
Information only; no action is required.

- **4000007a-00000000 : Static Power Savings mode has been turned off by user [arg1].**

Static Power Savings mode turned off by user

May also be shown as 4000007a00000000 or 0x4000007a00000000

**Severity**

Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0122

**User Response**
Information only; no action is required.

- **4000007b-00000000 : Dynamic Power Savings mode has been turned on by user [arg1].**

  Dynamic Power Savings mode turned on by user

  May also be shown as 4000007b00000000 or 0x4000007b00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0123

  **User Response**
  Information only; no action is required.

- **4000007c-00000000 : Dynamic Power Savings mode has been turned off by user [arg1].**

  Dynamic Power Savings mode turned off by user

  May also be shown as 4000007c00000000 or 0x4000007c00000000

  **Severity**
  Info

  **Serviceable**

No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0124

**User Response**
Information only; no action is required.

- **4000007d-00000000 : Power cap and external throttling occurred.**

Power cap and external throttling occurred

May also be shown as 4000007d00000000 or 0x4000007d00000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0125

**User Response**
Information only; no action is required.

- **4000007e-00000000 : External throttling occurred .**

External throttling occurred

May also be shown as 4000007e00000000 or 0x4000007e00000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**

No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0126

**User Response**
Information only; no action is required.

- **4000007f-00000000 : Power cap throttling occurred.**

  Power cap throttling occurrred

  May also be shown as 4000007f00000000 or 0x4000007f00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0127

  **User Response**
  Information only; no action is required.

- **40000080-00000000 : Remote Control session started by user [arg1] in [arg2] mode.**

  Remote Control session started

  May also be shown as 4000008000000000 or 0x4000008000000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**

none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0128

**User Response**
Information only; no action is required.

- **40000081-00000000 : PXE boot requested by user [arg1].**

PXE boot requested

May also be shown as 4000008100000000 or 0x4000008100000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0129

**User Response**
Information only; no action is required.

- **40000082-00000000 : The measured power value has returned below the power cap value.**

Power exceeded cap recovered

May also be shown as 4000008200000000 or 0x4000008200000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Warning - Power

**SNMP Trap ID**

164

**CIM Information**
**Prefix:** IMM **ID:** 0130

**User Response**
Information only; no action is required.

- **40000083-00000000 : The new minimum power cap value has returned below the power cap value.**

Minimum Power Cap exceeds Power Cap recovered

May also be shown as 4000008300000000 or 0x4000008300000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Warning - Power

**SNMP Trap ID**
164

**CIM Information**
**Prefix:** IMM **ID:** 0131

**User Response**
Information only; no action is required.

- **40000084-00000000 : IMM firmware mismatch between nodes [arg1] and [arg2]. Please attempt to flash the IMM firmware to the same level on all nodes.**

A mismatch of IMM firmware has been detected between nodes

May also be shown as 4000008400000000 or 0x4000008400000000

**Severity**
Error

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**
22

**CIM Information**
**Prefix:** IMM **ID:** 0132

**User Response**
Attempt to flash the IMM firmware to the same level on all nodes.

- **40000085-00000000 : FPGA firmware mismatch between nodes [arg1] and [arg2]. Please attempt to flash the FPGA firmware to the same level on all nodes.**

  A mismatch of FPGA firmware has been detected between nodes

  May also be shown as 4000008500000000 or 0x4000008500000000

**Severity**
Error

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**
22

**CIM Information**
**Prefix:** IMM **ID:** 0133

**User Response**
Attempt to flash the FPGA firmware to the same level on all nodes.

- **40000086-00000000 : Test Call Home Generated by user [arg1].**

  Test Call Home generated by user.

  May also be shown as 4000008600000000 or 0x4000008600000000

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
Yes

**Alert Category**
none

**SNMP Trap ID**

**CIM Information**
**Prefix:** IMM **ID:** 0134

**User Response**
Information only; no action is required.

- **40000087-00000000 : Manual Call Home by user [arg1]: [arg2].**

  Manual Call Home by user.

  May also be shown as 4000008700000000 or 0x4000008700000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  Yes

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0135

  **User Response**
  IBM Support will address the problem.

- **40000088-00000000 : Management Controller [arg1]: Configuration restoration from a file by user [arg2] completed.**

  This message is for the use case where a user restores a Management Controller configuration from a file and it completes.

  May also be shown as 4000008800000000 or 0x4000008800000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  none

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** IMM **ID:** 0136

  **User Response**

Information only; no action is required.

- **40000089-00000000 : Management Controller [arg1]: Configuration restoration from a file by user [arg2] failed to complete.**

  This message is for the use case where a user restores a Management Controller configuration from a file and the restoration fails to complete.

  May also be shown as 4000008900000000 or 0x4000008900000000

  **Severity**
  Error

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** IMM **ID:** 0137

  **User Response**

  1. Turn off the server and disconnect it from the power source. You must disconnect the server from ac power to reset the IMM.
  2. After 45 seconds, reconnect the server to the power source and turn on the server.
  3. Retry the operation.

- **4000008a-00000000 : Management Controller [arg1]: Configuration restoration from a file by user [arg2] failed to start.**

  This message is for the use case where a user restores a Management Controller configuration from a file and the restoration fails to start.

  May also be shown as 4000008a00000000 or 0x4000008a00000000

  **Severity**
  Error

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

**SNMP Trap ID**
22

**CIM Information**
**Prefix:** IMM **ID:** 0138

**User Response**

1. Turn off the server and disconnect it from the power source. You must disconnect the server from ac power to reset the IMM.
2. After 45 seconds, reconnect the server to the power source and turn on the server.
3. Retry the operation.

- **4000008b-00000000 : One or more of the Storage Management IP addresses has changed.**

  This message is for the use case where an IP address for the Storage Management has changed

  May also be shown as 4000008b00000000 or 0x4000008b00000000

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - IMM Network event

  **SNMP Trap ID**
  37

  **CIM Information**
  **Prefix:** IMM **ID:** 0139

  **User Response**
  Information only; no action is required.

- **80010002-0701ffff : Numeric sensor [NumericSensorElementName] going low (lower non-critical) has asserted. (CMOS Battery)**

  This message is for the use case when an implementation has detected a Lower Non-critical sensor going low has asserted.

  May also be shown as 800100020701ffff or 0x800100020701ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

**Automatically notify support**
No

**Alert Category**
Warning - Voltage

**SNMP Trap ID**
13

**CIM Information**
**Prefix:** PLAT **ID:** 0476

**User Response**
Replace the system battery.

- **80010202-0701ffff : Numeric sensor [NumericSensorElementName] going low (lower critical) has asserted.**

  This message is for the use case when an implementation has detected a Lower Critical sensor going low has asserted.

  May also be shown as 800102020701ffff or 0x800102020701ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Voltage

  **SNMP Trap ID**
  1

  **CIM Information**
  **Prefix:** PLAT **ID:** 0480

  **User Response**
  If the specified sensor is CMOS battery, replace the system battery. If the specified sensor is Planar 3.3V or Planar 5V, (trained technician only) replace the system board. If the specified sensor is Planar 12V, complete the following steps until the problem is solved:

  1. Check power supply n LED.
  2. Remove the failing power supply.
  3. Follow actions in "Power Problems and Solving Power Problems".
  4. (Trained technician only) Replace the system board. (n = power supply number)

- **80010204-1d01ffff : Numeric sensor [NumericSensorElementName] going low (lower critical) has asserted. (Fan 1 Tach)**

  This message is for the use case when an implementation has detected a Lower Critical sensor going low has asserted.

May also be shown as 800102041d01ffff or 0x800102041d01ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Fan Failure

**SNMP Trap ID**
11

**CIM Information**
**Prefix:** PLAT **ID:** 0480

**User Response**

1. Reseat the failing fan n, which is indicated by a lit LED near the fan connector on the system board.
2. Replace the failing fan. (n = fan number)

- **80010204-1d02ffff : Numeric sensor [NumericSensorElementName] going low (lower critical) has asserted. (Fan 2 Tach)**

  This message is for the use case when an implementation has detected a Lower Critical sensor going low has asserted.

  May also be shown as 800102041d02ffff or 0x800102041d02ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Fan Failure

  **SNMP Trap ID**
  11

  **CIM Information**
  **Prefix:** PLAT **ID:** 0480

  **User Response**

  1. Reseat the failing fan n, which is indicated by a lit LED near the fan connector on the system board.

2. Replace the failing fan. (n = fan number)

- **80010204-1d03ffff : Numeric sensor [NumericSensorElementName] going low (lower critical) has asserted. (Fan 3 Tach)**

  This message is for the use case when an implementation has detected a Lower Critical sensor going low has asserted.

  May also be shown as 800102041d03ffff or 0x800102041d03ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Fan Failure

  **SNMP Trap ID**
  11

  **CIM Information**
  **Prefix:** PLAT **ID:** 0480

  **User Response**

  1. Reseat the failing fan n, which is indicated by a lit LED near the fan connector on the system board.
  2. Replace the failing fan. (n = fan number)

- **80010204-1d04ffff : Numeric sensor [NumericSensorElementName] going low (lower critical) has asserted. (Fan 4 Tach)**

  This message is for the use case when an implementation has detected a Lower Critical sensor going low has asserted.

  May also be shown as 800102041d04ffff or 0x800102041d04ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Fan Failure

**SNMP Trap ID**
11

**CIM Information**
**Prefix:** PLAT **ID:** 0480

**User Response**

1. Reseat the failing fan n, which is indicated by a lit LED near the fan connector on the system board.
2. Replace the failing fan. (n = fan number)

- **80010204-1d05ffff : Numeric sensor [NumericSensorElementName] going low (lower critical) has asserted. (Fan 5 Tach)**

  This message is for the use case when an implementation has detected a Lower Critical sensor going low has asserted.

  May also be shown as 800102041d05ffff or 0x800102041d05ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Fan Failure

  **SNMP Trap ID**
  11

  **CIM Information**
  **Prefix:** PLAT **ID:** 0480

  **User Response**

  1. Reseat the failing fan n, which is indicated by a lit LED near the fan connector on the system board.
  2. Replace the failing fan. (n = fan number)

- **80010204-1d06ffff : Numeric sensor [NumericSensorElementName] going low (lower critical) has asserted. (Fan 6 Tach)**

  This message is for the use case when an implementation has detected a Lower Critical sensor going low has asserted.

  May also be shown as 800102041d06ffff or 0x800102041d06ffff

  **Severity**

Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Fan Failure

**SNMP Trap ID**
11

**CIM Information**
**Prefix:** PLAT **ID:** 0480

**User Response**

1. Reseat the failing fan n, which is indicated by a lit LED near the fan connector on the system board.
2. Replace the failing fan. (n = fan number)

- **80010701-0701ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has asserted. (Ambient Temp)**

  This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

  May also be shown as 800107010701ffff or 0x800107010701ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Temperature

  **SNMP Trap ID**
  12

  **CIM Information**
  **Prefix:** PLAT **ID:** 0490

  **User Response**

  1. Reduce the temperature.
  2. Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010701-1401ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has asserted. (CPU1 VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

  May also be shown as 800107011401ffff or 0x800107011401ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Temperature

  **SNMP Trap ID**
  12

  **CIM Information**
  **Prefix:** PLAT **ID:** 0490

  **User Response**

  1. Reduce the temperature.
  2. Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010701-1402ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has asserted. (CPU2 VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

  May also be shown as 800107011402ffff or 0x800107011402ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Temperature

  **SNMP Trap ID**
  12

  **CIM Information**
  **Prefix:** PLAT **ID:** 0490

**User Response**

1. Reduce the temperature.
2. Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010701-1403ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has asserted. (DIMM AB VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

  May also be shown as 800107011403ffff or 0x800107011403ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Temperature

  **SNMP Trap ID**
  12

  **CIM Information**
  **Prefix:** PLAT **ID:** 0490

  **User Response**

  1. Reduce the temperature.
  2. Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010701-1404ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has asserted. (DIMM CD VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

  May also be shown as 800107011404ffff or 0x800107011404ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**

No

**Alert Category**
Warning - Temperature

**SNMP Trap ID**
12

**CIM Information**
**Prefix:** PLAT **ID:** 0490

**User Response**

1. Reduce the temperature.
2. Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010701-1405ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has asserted. (DIMM EF VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

  May also be shown as 800107011405ffff or 0x800107011405ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Temperature

  **SNMP Trap ID**
  12

  **CIM Information**
  **Prefix:** PLAT **ID:** 0490

  **User Response**

  1. Reduce the temperature.
  2. Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010701-1406ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has asserted. (DIMM GH VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

May also be shown as 800107011406ffff or 0x800107011406ffff

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Warning - Temperature

**SNMP Trap ID**
12

**CIM Information**
**Prefix:** PLAT **ID:** 0490

**User Response**

1. Reduce the temperature.
2. Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010701-2d01ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has asserted. (PCH Temp)**

  This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

  May also be shown as 800107012d01ffff or 0x800107012d01ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Temperature

  **SNMP Trap ID**
  12

  **CIM Information**
  **Prefix:** PLAT **ID:** 0490

  **User Response**

  1. Reduce the temperature.

2. Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010901-0701ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (Ambient Temp)**

  This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

  May also be shown as 800109010701ffff or 0x800109010701ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0494

  **User Response**

  1. Reduce the ambient temperature.
  2. Ensure the air baffle is installed correctly.
  3. Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010901-1401ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (CPU1 VR Temp)**

  This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

  May also be shown as 800109011401ffff or 0x800109011401ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0494

**User Response**

1. Reduce the ambient temperature.
2. Ensure the air baffle is installed correctly.
3. Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010901-1402ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (CPU2 VR Temp)**

  This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

  May also be shown as 800109011402ffff or 0x800109011402ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0494

  **User Response**

  1. Reduce the ambient temperature.
  2. Ensure the air baffle is installed correctly.
  3. Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010901-1403ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (DIMM AB VR Temp)**

  This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

May also be shown as 800109011403ffff or 0x800109011403ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0494

**User Response**

1. Reduce the ambient temperature.
2. Ensure the air baffle is installed correctly.
3. Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010901-1404ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (DIMM CD VR Temp)**

  This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

  May also be shown as 800109011404ffff or 0x800109011404ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0494

  **User Response**

1. Reduce the ambient temperature.
2. Ensure the air baffle is installed correctly.
3. Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010901-1405ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (DIMM EF VR Temp)**

  This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

  May also be shown as 800109011405ffff or 0x800109011405ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0494

  **User Response**

  1. Reduce the ambient temperature.
  2. Ensure the air baffle is installed correctly.
  3. Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010901-1406ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (DIMM GH VR Temp)**

  This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

  May also be shown as 800109011406ffff or 0x800109011406ffff

  **Severity**
  Error

  **Serviceable**
  Yes

**Automatically notify support**
No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0494

**User Response**

1. Reduce the ambient temperature.
2. Ensure the air baffle is installed correctly.
3. Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010901-2d01ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (PCH Temp)**

  This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

  May also be shown as 800109012d01ffff or 0x800109012d01ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0494

  **User Response**

  1. Reduce the ambient temperature.
  2. Ensure the air baffle is installed correctly.
  3. Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010902-0701ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted.**

This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

May also be shown as 800109020701ffff or 0x800109020701ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Voltage

**SNMP Trap ID**
1

**CIM Information**
**Prefix:** PLAT **ID:** 0494

**User Response**
If the specified sensor is Planar 3.3V or Planar 5V, (Trained technician only) replace the system board. If the specified sensor is Planar 12V, complete the following steps until the problem is solved:

1. Check power supply n LED.
2. Remove the failing power supply.
3. (Trained technician only) Replace the system board. (n = power supply number)

- **80010b01-0701ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (Ambient Temp)**

  This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

  May also be shown as 80010b010701ffff or 0x80010b010701ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0498

**User Response**
Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010b01-1401ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (CPU1 VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

  May also be shown as 80010b011401ffff or 0x80010b011401ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0498

  **User Response**
  Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010b01-1402ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (CPU2 VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

  May also be shown as 80010b011402ffff or 0x80010b011402ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

**CIM Information**
**Prefix:** PLAT **ID:** 0498

**User Response**
Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010b01-1403ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (DIMM AB VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

  May also be shown as 80010b011403ffff or 0x80010b011403ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0498

  **User Response**
  Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010b01-1404ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (DIMM CD VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

  May also be shown as 80010b011404ffff or 0x80010b011404ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0498

**User Response**
Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010b01-1405ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (DIMM EF VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

  May also be shown as 80010b011405ffff or 0x80010b011405ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0498

  **User Response**
  Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010b01-1406ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (DIMM GH VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

  May also be shown as 80010b011406ffff or 0x80010b011406ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0498

**User Response**
Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80010b01-2d01ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (PCH Temp)**

  This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

  May also be shown as 80010b012d01ffff or 0x80010b012d01ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0498

  **User Response**
  Check the server airflow. Make sure that nothing is blocking the air from coming into or preventing the air from exiting the server.

- **80030006-2101ffff : Sensor [SensorElementName] has deasserted. (Sig Verify Fail)**

  This message is for the use case when an implementation has detected a Sensor has deasserted.

  May also be shown as 800300062101ffff or 0x800300062101ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**

No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0509

**User Response**
No action; information only.

- **80030012-2301ffff : Sensor [SensorElementName] has deasserted. (OS RealTime Mod)**

  This message is for the use case when an implementation has detected a Sensor has deasserted.

  May also be shown as 800300122301ffff or 0x800300122301ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0509

  **User Response**
  No action; information only.

- **80030108-1301ffff : Sensor [SensorElementName] has asserted. (PS Heavy Load)**

  This message is for the use case when an implementation has detected a Sensor has asserted.

  May also be shown as 800301081301ffff or 0x800301081301ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**

System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0508

**User Response**

1. Replace the power supply with higher rated power.
2. Reduce the total power consumption by removing newly added or unused option like drives or adapters.

- **80070009-0a01ffff : Sensor [SensorElementName] has transitioned to normal state. (PDB_12V1)**

  This message is for the use case when an implementation has detected a Sensor transition to the normal state.

  May also be shown as 800700090a01ffff or 0x800700090a01ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Power

  **SNMP Trap ID**
  164

  **CIM Information**
  **Prefix:** PLAT **ID:** 0518

  **User Response**
  No action; information only. PDB_12V2 : PDB_12V3 : PDB_12V4_240VA : PDB_12V5_240VA : PDB_5V_OCP : PDB_5V_OVP : PDB_SHORT_CIR :

- **8007010f-2201ffff : Sensor [SensorElementName] has transitioned from normal to non-critical state. (GPT Status)**

  This message is for the use case when an implementation has detected a Sensor transitioned to non-critical from normal.

  May also be shown as 8007010f2201ffff or 0x8007010f2201ffff

  **Severity**
  Warning

  **Serviceable**

Yes

**Automatically notify support**
No

**Alert Category**
Warning - Other

**SNMP Trap ID**
60

**CIM Information**
**Prefix:** PLAT **ID:** 0520

**User Response**

1. Check the IBM support site for service bulletins or firmware updates that apply to this GPT error.
2. Set the UEFI setting DISK GPT Recovery to Automatic.
3. Replace the corrupt disk.

- **8007010f-2582ffff : Sensor [SensorElementName] has transitioned from normal to non-critical state. (I/O Resources)**

  This message is for the use case when an implementation has detected a Sensor transitioned to non-critical from normal.

  May also be shown as 8007010f2582ffff or 0x8007010f2582ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Other

  **SNMP Trap ID**
  60

  **CIM Information**
  **Prefix:** PLAT **ID:** 0520

  **User Response**
  Complete the following step to solve PCI I/O resource errors:

  1. Go to F1 Setup
  2. System Settings
  3. Device and I/O ports
  4. PCI 64 bit Resource and choose enable.

- **80070114-2201ffff : Sensor [SensorElementName] has transitioned from normal to non-critical state. (TPM Phy Pres Set)**

  This message is for the use case when an implementation has detected a Sensor transitioned to non-critical from normal.

  May also be shown as 800701142201ffff or 0x800701142201ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Other

  **SNMP Trap ID**
  60

  **CIM Information**
  **Prefix:** PLAT **ID:** 0520

  **User Response**

  1. Complete the administrative tasks that require the TPM physical presence switch to be in the ON position.
  2. Restore the physical presence switch to the OFF position.
  3. Reboot the system.
  4. (Trained technician only) If the error continues, replace the planar.

- **80070201-0301ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (CPU 1 OverTemp)**

  This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

  May also be shown as 800702010301ffff or 0x800702010301ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**

0

**CIM Information**
**Prefix:** PLAT **ID:** 0522

**User Response**

1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Check the ambient temperature. You must be operating within the specifications (see Features and specifications for more information).
3. Make sure that the heat sink for microprocessor n is installed correctly.
4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

- **80070201-0302ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (CPU 2 OverTemp)**

  This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

  May also be shown as 800702010302ffff or 0x800702010302ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0522

  **User Response**

  1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
  2. Check the ambient temperature. You must be operating within the specifications (see Features and specifications for more information).
  3. Make sure that the heat sink for microprocessor n is installed correctly.
  4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

- **80070202-0701ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (SysBrd Vol Fault)**

  This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

  May also be shown as 800702020701ffff or 0x800702020701ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Voltage

  **SNMP Trap ID**
  1

  **CIM Information**
  **Prefix:** PLAT **ID:** 0522

  **User Response**

  1. Check the system-event log.
  2. Check for an error LED on the system board.
  3. Replace any failing device.
  4. Check for a server firmware update. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
  5. (Trained technician only) Replace the system board.

- **80070202-1201ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (CPU2 BRD Fault)**

  This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

  May also be shown as 800702021201ffff or 0x800702021201ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**

Critical - Voltage

**SNMP Trap ID**
1

**CIM Information**
**Prefix:** PLAT **ID:** 0522

**User Response**

1. Check the system-event log.
2. Check for an error LED on the system board.
3. Replace any failing device.
4. Check for a server firmware update. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
5. (Trained technician only) Replace the system board.

- **80070202-1501ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (Power PDB Fault)**

  This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

  May also be shown as 800702021501ffff or 0x800702021501ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Voltage

  **SNMP Trap ID**
  1

  **CIM Information**
  **Prefix:** PLAT **ID:** 0522

  **User Response**

  1. Check the system-event log.
  2. Check for an error LED on the system board.
  3. Replace any failing device.
  4. Check for a server firmware update. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
  5. (Trained technician only) Replace the system board.

- **80070204-0a01ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (PS 1 Fan Fault)**

  This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

  May also be shown as 800702040a01ffff or 0x800702040a01ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Fan Failure

  **SNMP Trap ID**
  11

  **CIM Information**
  **Prefix:** PLAT **ID:** 0522

  **User Response**

  1. Make sure that there are no obstructions, such as bundled cables, to the airflow from the power-supply fan.
  2. Replace power supply n. (n = power supply number)

- **80070204-0a02ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (PS 2 Fan Fault)**

  This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

  May also be shown as 800702040a02ffff or 0x800702040a02ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Fan Failure

  **SNMP Trap ID**
  11

  **CIM Information**

**Prefix:** PLAT **ID:** 0522

**User Response**

1. Make sure that there are no obstructions, such as bundled cables, to the airflow from the power-supply fan.
2. Replace power supply n. (n = power supply number)

- **80070208-0a01ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (PS 1 Therm Fault)**

  This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

  May also be shown as 800702080a01ffff or 0x800702080a01ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Power

  **SNMP Trap ID**
  4

  **CIM Information**
  **Prefix:** PLAT **ID:** 0522

  **User Response**

  1. Make sure that there are no obstructions, such as bundled cables, to the airflow from the power-supply fan.
  2. Use the IBM Power Configurator utility to ensure current system power consumption is under limitation. For more information and to download the utility, go to http://www-03.ibm.com/systems/bladecenter/resources/powerconfig.html.
  3. Replace power supply n. (n = power supply number)

- **80070208-0a02ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (PS 2 Therm Fault)**

  This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

  May also be shown as 800702080a02ffff or 0x800702080a02ffff

  **Severity**

Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Power

**SNMP Trap ID**
4

**CIM Information**
**Prefix:** PLAT **ID:** 0522

**User Response**

1. Make sure that there are no obstructions, such as bundled cables, to the airflow from the power-supply fan.
2. Use the IBM Power Configurator utility to ensure current system power consumption is under limitation. For more information and to download the utility, go to http://www-03.ibm.com/systems/bladecenter/resources/powerconfig.html.
3. Replace power supply n. (n = power supply number)

- **8007020f-2201ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (TXT ACM Module)**

  This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

  May also be shown as 8007020f2201ffff or 0x8007020f2201ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0522

  **User Response**

  1. If enabling TXT is not required, disable TXT from the Setup Utility.
  2. If enabling TXT is required, verify that the TPM is enabled and activated from the Setup Utility.

3. If the problem remains, contact your service representative.

- **8007020f-2582ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (I/O Resources)**

  This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

  May also be shown as 8007020f2582ffff or 0x8007020f2582ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0522

  **User Response**
  Complete the following step to solve PCI I/O resource errors:

  1. Go to F1 Setup
  2. System Settings
  3. Device and I/O ports
  4. PCI 64 bit Resource and choose enable.

- **80070214-2201ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (TPM Lock)**

  This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

  May also be shown as 800702142201ffff or 0x800702142201ffff

  **Severity**
  Error

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**

Critical - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0522

**User Response**

1. Update the server firmware (see Recovering the server firmware).
2. If the problem persists, (trained technician only) replace the system board (see Removing the system board and Installing the system board).

- **80070219-0701ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (SysBrd Fault)**

  This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

  May also be shown as 800702190701ffff or 0x800702190701ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0522

  **User Response**

  1. Check for an error LED on the system board.
  2. Check the system-event log.
  3. Check for the system firmware version and update to the latest version. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
  4. Unplug and restore AC power cord, then, perform step 1 and 2 again.
  5. If problems still occurred, (trained technician only) replace the system board.

- **8007021b-0301ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (CPU 1 QPILinkErr)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 8007021b0301ffff or 0x8007021b0301ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Other

**SNMP Trap ID**
50

**CIM Information**
**Prefix:** PLAT **ID:** 0522

**User Response**

1. Check for a server firmware update.
2. Make sure that the installed microprocessors are compatible.
3. Make sure the microprocessor 2 expansion board is installed correctly (see Installing the microprocessor 2 expansion board).
4. (Trained technician only) Replace microprocessor 2.
5. (Trained technician only) Replace microprocessor 2 expansion board.

- **8007021b-0302ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (CPU 2 QPILinkErr)**

  This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

  May also be shown as 8007021b0302ffff or 0x8007021b0302ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

**CIM Information**
**Prefix:** PLAT **ID:** 0522

**User Response**

1. Check for a server firmware update.
2. Make sure that the installed microprocessors are compatible.
3. Make sure the microprocessor 2 expansion board is installed correctly (see Installing the microprocessor 2 expansion board).
4. (Trained technician only) Replace microprocessor 2.
5. (Trained technician only) Replace microprocessor 2 expansion board.

- **80070301-0301ffff : Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (CPU 1 OverTemp)**

  This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

  May also be shown as 800703010301ffff or 0x800703010301ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0524

  **User Response**

  1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffle is in place and correctly installed, and that the server cover is installed and completely closed.
  2. Check the ambient temperature. You must be operating within the specifications (see Server Features and specifications for more information).
  3. Make sure that the heat sink for microprocessor n.
  4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

- **80070301-0302ffff : Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (CPU 2 OverTemp)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

May also be shown as 800703010302ffff or 0x800703010302ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0524

**User Response**

1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffle is in place and correctly installed, and that the server cover is installed and completely closed.
2. Check the ambient temperature. You must be operating within the specifications (see Server Features and specifications for more information).
3. Make sure that the heat sink for microprocessor n.
4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

- **80070608-0a01ffff : Sensor [SensorElementName] has transitioned to non-recoverable.**

This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable.

May also be shown as 800706080a01ffff or 0x800706080a01ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Power

**SNMP Trap ID**
4

**CIM Information**
**Prefix:** PLAT **ID:** 0530

**User Response**
If the specified sensor is PS n 12V OC Fault, complete the following steps until the problem is solved:

1. Use the IBM Power Configurator utility to determine current system power consumption. For more information and to download the utility, go to http://www-03.ibm.com/systems/bladecenter/resources/powerconfig.html.
2. Follow actions in "Power Problems and Solving Power Problems".

If the specified sensor is PS n 12V OV Fault, complete the following steps until the problem is solved:

1. Check power supply n LED.
2. Remove the failing power supply.
3. (Trained technician only) Replace the system board. (n = power supply number)

If the specified sensor is PS n 12V UV Fault, complete the following steps until the problem is solved:

1. Check power supply n LED.
2. Remove the failing power supply.
3. Follow actions in "Power Problems and Solving Power Problems".
4. (Trained technician only) Replace the system board. (n = power supply number)

If the specified sensor is PS n 12Vaux Fault, complete the following steps until the problem is solved:

1. Check power supply n LED.
2. Replace power supply n. (n = power supply number)

- **80070608-0a02ffff : Sensor [SensorElementName] has transitioned to non-recoverable.**

  This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable.

  May also be shown as 800706080a02ffff or 0x800706080a02ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Power

  **SNMP Trap ID**
  4

  **CIM Information**
  **Prefix:** PLAT **ID:** 0530

  **User Response**
  If the specified sensor is PS n 12V OC Fault, complete the following steps until the problem is solved:

1. Use the IBM Power Configurator utility to determine current system power consumption. For more information and to download the utility, go to http://www-03.ibm.com/systems/bladecenter/resources/powerconfig.html.
2. Follow actions in "Power Problems and Solving Power Problems".

If the specified sensor is PS n 12V OV Fault, complete the following steps until the problem is solved:

1. Check power supply n LED.
2. Remove the failing power supply.
3. (Trained technician only) Replace the system board. (n = power supply number)

If the specified sensor is PS n 12V UV Fault, complete the following steps until the problem is solved:

1. Check power supply n LED.
2. Remove the failing power supply.
3. Follow actions in "Power Problems and Solving Power Problems".
4. (Trained technician only) Replace the system board. (n = power supply number)

If the specified sensor is PS n 12Vaux Fault, complete the following steps until the problem is solved:

1. Check power supply n LED.
2. Replace power supply n. (n = power supply number)

- **80070609-0a01ffff : Sensor [SensorElementName] has transitioned to non-recoverable. (PDB_12V1)**

  This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable.

  May also be shown as 800706090a01ffff or 0x800706090a01ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Power

  **SNMP Trap ID**
  4

  **CIM Information**
  **Prefix:** PLAT **ID:** 0530

  **User Response**
  If the specified sensor is one of the following sensors, PDB_12V1, PDB12V2, PDB_12V3, PDB_12V4_240VA, PDB_12V5_240VA, PDB_5V_OVP or PDB_SHORT_CIR, please replace the system board. PDB_12V2 : PDB_12V3 : PDB_12V4_240VA : PDB_12V5_240VA : PDB_5V_OCP : PDB_5V_OVP : PDB_SHORT_CIR :

- **80070614-2201ffff : Sensor [SensorElementName] has transitioned to non-recoverable. (TPM Phy Pres Set)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable.

May also be shown as 800706142201ffff or 0x800706142201ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Other

**SNMP Trap ID**
50

**CIM Information**
**Prefix:** PLAT **ID:** 0530

**User Response**

1. Update the server firmware (see Recovering the server firmware).
2. If the problem persists, (trained technician only) replace the system board (see Removing the system board and Installing the system board).

- **8008010f-2101ffff : Device [LogicalDeviceElementName] has been added. (Phy Presence Jmp)**

This message is for the use case when an implementation has detected a Device was inserted.

May also be shown as 8008010f2101ffff or 0x8008010f2101ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0536

**User Response**
No action; information only.

- **80080128-2101ffff : Device [LogicalDeviceElementName] has been added. (Low Security Jmp)**

  This message is for the use case when an implementation has detected a Device was inserted.

  May also be shown as 800801282101ffff or 0x800801282101ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0536

  **User Response**
  No action; information only.

- **800b0008-1301ffff : Redundancy [RedundancySetElementName] has been restored. (Power Unit)**

  This message is for the use case when an implementation has detected Redundancy was Restored.

  May also be shown as 800b00081301ffff or 0x800b00081301ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Redundant Power Supply

  **SNMP Trap ID**
  10

  **CIM Information**
  **Prefix:** PLAT **ID:** 0561

  **User Response**
  No action; information only.

- **800b0108-1301ffff : Redundancy Lost for [RedundancySetElementName] has asserted. (Power Unit)**

This message is for the use case when Redundancy Lost has asserted.

May also be shown as 800b01081301ffff or 0x800b01081301ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Redundant Power Supply

**SNMP Trap ID**
9

**CIM Information**
**Prefix:** PLAT **ID:** 0802

**User Response**

1. Check the LEDs for both power supplies.
2. Follow the actions in Power-supply LEDs.

- **800b010a-1e01ffff : Redundancy Lost for [RedundancySetElementName] has asserted. (Fan Zone 1)**

  This message is for the use case when Redundancy Lost has asserted.

  May also be shown as 800b010a1e01ffff or 0x800b010a1e01ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Fan Failure

  **SNMP Trap ID**
  11

  **CIM Information**
  **Prefix:** PLAT **ID:** 0802

  **User Response**

  1. Make sure that the connectors on fan n are not damaged.
  2. Make sure that the fan n connectors on the system board are not damaged.

3. Make sure that the fans are correctly installed.
4. Reseat the fans.
5. Replace the fans. (n = fan number)

- **800b010c-2581ffff : Redundancy Lost for [RedundancySetElementName] has asserted. (Backup Memory)**

  This message is for the use case when Redundancy Lost has asserted.

  May also be shown as 800b010c2581ffff or 0x800b010c2581ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0802

  **User Response**

  1. Check the system-event log for DIMM failure events (uncorrectable or PFA) and correct the failures.
  2. Re-enable mirroring in the Setup utility.

- **800b0309-1301ffff : Non-redundant:Sufficient Resources from Redundancy Degraded or Fully Redundant for [RedundancySetElementName] has asserted. (Power Resource)**

  This message is for the use case when a Redundancy Set has transitioned from Redundancy Degraded or Fully Redundant to Non-redundant:Sufficient.

  May also be shown as 800b03091301ffff or 0x800b03091301ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**

Warning - Redundant Power Supply

**SNMP Trap ID**
10

**CIM Information**
**Prefix:** PLAT **ID:** 0806

**User Response**

1. Non-redundant sufficient: Power load will be handled by remaining power supply, though the system may throttle to avoid a power supply over-current condition.
2. Replace the power supply with higher rated power.

- **800b030c-2581ffff : Non-redundant:Sufficient Resources from Redundancy Degraded or Fully Redundant for [RedundancySetElementName] has asserted. (Backup Memory)**

  This message is for the use case when a Redundancy Set has transitioned from Redundancy Degraded or Fully Redundant to Non-redundant:Sufficient.

  May also be shown as 800b030c2581ffff or 0x800b030c2581ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0806

  **User Response**

  1. Check the system-event log for DIMM failure events (uncorrectable or PFA) and correct the failures.
  2. Re-enable mirroring in the Setup utility.

- **800b0509-1301ffff : Non-redundant:Insufficient Resources for [RedundancySetElementName] has asserted. (Power Resource)**

  This message is for the use case when a Redundancy Set has transitioned to Non-redundant:Insufficient Resources.

  May also be shown as 800b05091301ffff or 0x800b05091301ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Redundant Power Supply

**SNMP Trap ID**
9

**CIM Information**
**Prefix:** PLAT **ID:** 0810

**User Response**

1. Power load may be handled by remaining power supply. The system will attempt to throttle to avoid a power supply over-current condition. But a system shutdown may happen anyway if the power load is too great.
2. Reduce the total power consumption by removing newly added or unused options like drives or adaptors.
3. Use the IBM Power Configurator utility to determine current system power consumption. For more information and to download the utility, go to http://www-03.ibm.com/systems/bladecenter/resources/powerconfig.html.
4. Replace the power supply with higher rated power.

- **800b050a-1e01ffff : Non-redundant:Insufficient Resources for [RedundancySetElementName] has asserted. (Fan Zone 1)**

  This message is for the use case when a Redundancy Set has transitioned to Non-redundant:Insufficient Resources.

  May also be shown as 800b050a1e01ffff or 0x800b050a1e01ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Fan Failure

  **SNMP Trap ID**
  11

  **CIM Information**
  **Prefix:** PLAT **ID:** 0810

  **User Response**

1. Make sure that the connectors on fan n are not damaged.
2. Make sure that the fan n connectors on the system board are not damaged.
3. Make sure that the fans are correctly installed.
4. Reseat the fans.
5. Replace the fans. (n = fan number)

- **800b050c-2581ffff : Non-redundant:Insufficient Resources for [RedundancySetElementName] has asserted. (Backup Memory)**

  This message is for the use case when a Redundancy Set has transitioned to Non-redundant:Insufficient Resources.

  May also be shown as 800b050c2581ffff or 0x800b050c2581ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0810

  **User Response**

  1. Check the system-event log for DIMM failure events (uncorrectable or PFA) and correct the failures.
  2. Re-enable mirroring in the Setup utility.

- **806f0005-1701ffff : The Chassis [PhysicalPackageElementName] was opened. (Chassis Error)**

  This message is for the use case when the Chassis has been opened.

  May also be shown as 806f00051701ffff or 0x806f00051701ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**

No

**Alert Category**
Warning - Other

**SNMP Trap ID**
60

**CIM Information**
**Prefix:** PLAT **ID:** 0004

**User Response**

1. Reseat the left-side cover (see Removing the left-side cover and Installing the left-side cover).
2. Reseat the left-side cover/power cut-off switch assembly (see Removing the left-side cover/power cut-off switch and Installing the left-side cover/power cut-off switch).
3. Replace the left-side cover.
4. Replace the left-side cover/power cut-off switch assembly.

- **806f0007-0301ffff : [ProcessorElementName] has Failed with IERR. (CPU 1)**

  This message is for the use case when an implementation has detected a Processor Failed - IERR Condition.

  May also be shown as 806f00070301ffff or 0x806f00070301ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - CPU

  **SNMP Trap ID**
  40

  **CIM Information**
  **Prefix:** PLAT **ID:** 0042

  **User Response**

  1. Make sure that the latest level of firmware and device drivers are installed for all adapters and standard devices, such as Ethernet, SCSI, and SAS. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
  2. Update the firmware (UEFI and IMM) to the latest level (Updating the firmware).
  3. Run the DSA program.
  4. Reseat the adapter.
  5. Replace the adapter.

6. (Trained technician only) Replace microprocessor n.
7. (Trained technician only) Replace the system board. (n = microprocessor number)

- **806f0007-0302ffff : [ProcessorElementName] has Failed with IERR. (CPU 2)**

  This message is for the use case when an implementation has detected a Processor Failed - IERR Condition.

  May also be shown as 806f00070302ffff or 0x806f00070302ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - CPU

  **SNMP Trap ID**
  40

  **CIM Information**
  **Prefix:** PLAT **ID:** 0042

  **User Response**

  1. Make sure that the latest level of firmware and device drivers are installed for all adapters and standard devices, such as Ethernet, SCSI, and SAS. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
  2. Update the firmware (UEFI and IMM) to the latest level (Updating the firmware).
  3. Run the DSA program.
  4. Reseat the adapter.
  5. Replace the adapter.
  6. (Trained technician only) Replace microprocessor n.
  7. (Trained technician only) Replace the system board. (n = microprocessor number)

- **806f0008-0a01ffff : [PowerSupplyElementName] has been added to container [PhysicalPackageElementName]. (Power Supply 1)**

  This message is for the use case when an implementation has detected a Power Supply has been added.

  May also be shown as 806f00080a01ffff or 0x806f00080a01ffff

  **Severity**
  Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0084

**User Response**
No action; information only.

- **806f0008-0a02ffff : [PowerSupplyElementName] has been added to container [PhysicalPackageElementName]. (Power Supply 2)**

  This message is for the use case when an implementation has detected a Power Supply has been added.

  May also be shown as 806f00080a02ffff or 0x806f00080a02ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0084

  **User Response**
  No action; information only.

- **806f0009-1301ffff : [PowerSupplyElementName] has been turned off. (Host Power)**

  This message is for the use case when an implementation has detected a Power Unit that has been Disabled.

  May also be shown as 806f00091301ffff or 0x806f00091301ffff

  **Severity**
  Info

  **Serviceable**

No

**Automatically notify support**
No

**Alert Category**
System - Power Off

**SNMP Trap ID**
23

**CIM Information**
**Prefix:** PLAT **ID:** 0106

**User Response**
No action; information only.

- **806f000d-0400ffff : The Drive [StorageVolumeElementName] has been added. (Drive 0)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d0400ffff or 0x806f000d0400ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0162

  **User Response**
  No action; information only.

- **806f000d-0401ffff : The Drive [StorageVolumeElementName] has been added. (Drive 1)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d0401ffff or 0x806f000d0401ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**

No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0162

**User Response**
No action; information only.

- **806f000d-0402ffff : The Drive [StorageVolumeElementName] has been added. (Drive 2)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d0402ffff or 0x806f000d0402ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0162

  **User Response**
  No action; information only.

- **806f000d-0403ffff : The Drive [StorageVolumeElementName] has been added. (Drive 3)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d0403ffff or 0x806f000d0403ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**

Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0162

**User Response**
No action; information only.

- **806f000d-0404ffff : The Drive [StorageVolumeElementName] has been added. (Drive 4)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d0404ffff or 0x806f000d0404ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0162

  **User Response**
  No action; information only.

- **806f000d-0405ffff : The Drive [StorageVolumeElementName] has been added. (Drive 5)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d0405ffff or 0x806f000d0405ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**

5

**CIM Information**
**Prefix:** PLAT **ID:** 0162

**User Response**
No action; information only.

- **806f000d-0406ffff : The Drive [StorageVolumeElementName] has been added. (Drive 6)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d0406ffff or 0x806f000d0406ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0162

  **User Response**
  No action; information only.

- **806f000d-0407ffff : The Drive [StorageVolumeElementName] has been added. (Drive 7)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d0407ffff or 0x806f000d0407ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**

**Prefix:** PLAT **ID:** 0162

**User Response**
No action; information only.

- **806f000d-0408ffff : The Drive [StorageVolumeElementName] has been added. (Drive 8)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d0408ffff or 0x806f000d0408ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0162

  **User Response**
  No action; information only.

- **806f000d-0409ffff : The Drive [StorageVolumeElementName] has been added. (Drive 9)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d0409ffff or 0x806f000d0409ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0162

  **User Response**

No action; information only.

- **806f000d-040affff : The Drive [StorageVolumeElementName] has been added. (Drive 10)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d040affff or 0x806f000d040affff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0162

  **User Response**
  No action; information only.

- **806f000d-040bffff : The Drive [StorageVolumeElementName] has been added. (Drive 11)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d040bffff or 0x806f000d040bffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0162

  **User Response**
  No action; information only.

- **806f000d-040cffff : The Drive [StorageVolumeElementName] has been added. (Drive 12)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d040cffff or 0x806f000d040cffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0162

  **User Response**
  No action; information only.

- **806f000d-040dffff : The Drive [StorageVolumeElementName] has been added. (Drive 13)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d040dffff or 0x806f000d040dffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0162

  **User Response**
  No action; information only.

- **806f000d-040effff : The Drive [StorageVolumeElementName] has been added. (Drive 14)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d040effff or 0x806f000d040effff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0162

**User Response**
No action; information only.

- **806f000d-040fffff : The Drive [StorageVolumeElementName] has been added. (Drive 15)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d040fffff or 0x806f000d040fffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0162

  **User Response**
  No action; information only.

- **806f000d-0410ffff : The Drive [StorageVolumeElementName] has been added. (Drive 16)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d0410ffff or 0x806f000d0410ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0162

**User Response**
No action; information only.

- **806f000d-0411ffff : The Drive [StorageVolumeElementName] has been added. (Drive 17)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d0411ffff or 0x806f000d0411ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0162

  **User Response**
  No action; information only.

- **806f000d-0412ffff : The Drive [StorageVolumeElementName] has been added. (Drive 18)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d0412ffff or 0x806f000d0412ffff

  **Severity**

Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0162

**User Response**
No action; information only.

- **806f000d-0413ffff : The Drive [StorageVolumeElementName] has been added. (Drive 19)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d0413ffff or 0x806f000d0413ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0162

  **User Response**
  No action; information only.

- **806f000d-0414ffff : The Drive [StorageVolumeElementName] has been added. (Drive 20)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d0414ffff or 0x806f000d0414ffff

  **Severity**
  Info

  **Serviceable**

No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0162

**User Response**
No action; information only.

- **806f000d-0415ffff : The Drive [StorageVolumeElementName] has been added. (Drive 21)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d0415ffff or 0x806f000d0415ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0162

  **User Response**
  No action; information only.

- **806f000d-0416ffff : The Drive [StorageVolumeElementName] has been added. (Drive 22)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d0416ffff or 0x806f000d0416ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**

No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0162

**User Response**
No action; information only.

- **806f000d-0417ffff : The Drive [StorageVolumeElementName] has been added. (Drive 23)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d0417ffff or 0x806f000d0417ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0162

  **User Response**
  No action; information only.

- **806f000d-0418ffff : The Drive [StorageVolumeElementName] has been added. (Drive 24)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d0418ffff or 0x806f000d0418ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**

Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0162

**User Response**
No action; information only.

- **806f000d-0419ffff : The Drive [StorageVolumeElementName] has been added. (Drive 25)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d0419ffff or 0x806f000d0419ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0162

  **User Response**
  No action; information only.

- **806f000d-041affff : The Drive [StorageVolumeElementName] has been added. (Drive 26)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d041affff or 0x806f000d041affff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**

5

**CIM Information**
**Prefix:** PLAT **ID:** 0162

**User Response**
No action; information only.

- **806f000d-041bffff : The Drive [StorageVolumeElementName] has been added. (Drive 27)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d041bffff or 0x806f000d041bffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0162

  **User Response**
  No action; information only.

- **806f000d-041cffff : The Drive [StorageVolumeElementName] has been added. (Drive 28)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d041cffff or 0x806f000d041cffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**

**Prefix:** PLAT **ID:** 0162

**User Response**
No action; information only.

- **806f000d-041dffff : The Drive [StorageVolumeElementName] has been added. (Drive 29)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d041dffff or 0x806f000d041dffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0162

  **User Response**
  No action; information only.

- **806f000d-041effff : The Drive [StorageVolumeElementName] has been added. (Drive 30)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d041effff or 0x806f000d041effff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0162

  **User Response**

No action; information only.

- **806f000d-041fffff : The Drive [StorageVolumeElementName] has been added. (Drive 31)**

  This message is for the use case when an implementation has detected a Drive has been Added.

  May also be shown as 806f000d041fffff or 0x806f000d041fffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0162

  **User Response**
  No action; information only.

- **806f000f-220101ff : The System [ComputerSystemElementName] has detected no memory in the system. (ABR Status)**

  This message is for the use case when an implementation has detected that memory was detected in the system.

  May also be shown as 806f000f220101ff or 0x806f000f220101ff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0794

  **User Response**

1. Make sure the server meets the minimum configuration to start (see Power-supply LEDs).
2. Recover the server firmware from the backup page: a. Restart the server. b. At the prompt, press F3 to recover the firmware.
3. Update the server firmware on the primary page. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
4. Remove components one at a time, restarting the server each time, to see if the problem goes away.
5. If the problem remains, (trained technician only) replace the system board.

Firmware Error : Sys Boot Status :

- **806f000f-220102ff : Subsystem [MemoryElementName] has insufficient memory for operation. (ABR Status)**

  This message is for the use case when an implementation has detected that the usable Memory is insufficient for operation.

  May also be shown as 806f000f220102ff or 0x806f000f220102ff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0132

  **User Response**

  1. Make sure the server meets the minimum configuration to start (see Power-supply LEDs).
  2. Update the server firmware on the primary page. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
  3. (Trained technician only) Replace the system board.

  Firmware Error : Sys Boot Status :

- **806f000f-220103ff : The System [ComputerSystemElementName] encountered firmware error - unrecoverable boot device failure. (ABR Status)**

  This message is for the use case when an implementation has detected that System Firmware Error Unrecoverable boot device failure has occurred.

May also be shown as 806f000f220103ff or 0x806f000f220103ff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0770

**User Response**
This is a UEFI detected event. The UEFI(POST) error code for this event can be found in the logged IMM message text. Please refer to the UEFI(POST) error code in the "UEFI(POST) error code" section of the Information Center for the appropriate user response. Firmware Error : Sys Boot Status :

- **806f000f-220104ff : The System [ComputerSystemElementName]has encountered a motherboard failure. (ABR Status)**

  This message is for the use case when an implementation has detected that a fatal motherboard failure in the system.

  May also be shown as 806f000f220104ff or 0x806f000f220104ff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0795

  **User Response**
  This is a UEFI detected event. The UEFI(POST) error code for this event can be found in the logged IMM message text. Please refer to the UEFI(POST) error code in the "UEFI(POST) error code" section of the Information Center for the appropriate user response. Firmware Error : Sys Boot Status :

- **806f000f-220107ff : The System [ComputerSystemElementName] encountered firmware error - unrecoverable keyboard failure. (ABR Status)**

  This message is for the use case when an implementation has detected that System Firmware Error Unrecoverable Keyboard failure has occurred.

  May also be shown as 806f000f220107ff or 0x806f000f220107ff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0764

  **User Response**
  This is a UEFI detected event. The UEFI(POST) error code for this event can be found in the logged IMM message text. Please refer to the UEFI(POST) error code in the "UEFI(POST) error code" section of the Information Center for the appropriate user response. Firmware Error : Sys Boot Status :

- **806f000f-22010aff : The System [ComputerSystemElementName] encountered firmware error - no video device detected. (ABR Status)**

  This message is for the use case when an implementation has detected that System Firmware Error No video device detected has occurred.

  May also be shown as 806f000f22010aff or 0x806f000f22010aff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0766

  **User Response**

This is a UEFI detected event. The UEFI(POST) error for this event can be found in the logged IMM message text. Please refer to the UEFI(POST) error code in the "UEFI(POST) error code" section of the Information Center for the appropriate user response. Firmware Error : Sys Boot Status :

- **806f000f-22010bff : Firmware BIOS (ROM) corruption was detected on system [ComputerSystemElementName] during POST. (ABR Status)**

  Firmware BIOS (ROM) corruption was detected on the system during POST.

  May also be shown as 806f000f22010bff or 0x806f000f22010bff

  **Severity**
  Info

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  40

  **CIM Information**
  **Prefix:** PLAT **ID:** 0850

  **User Response**

  1. Make sure the server meets the minimum configuration to start (see Power-supply LEDs).
  2. Recover the server firmware from the backup page: a. Restart the server. b. At the prompt, press F3 to recover the firmware.
  3. Update the server firmware to the latest level (see Updating the firmware). Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
  4. Remove components one at a time, restarting the server each time, to see if the problem goes away.
  5. If the problem remains, (trained service technician) replace the system board.

  Firmware Error : Sys Boot Status :

- **806f000f-22010cff : CPU voltage mismatch detected on [ProcessorElementName]. (ABR Status)**

  This message is for the use case when an implementation has detected a CPU voltage mismatch with the socket voltage.

  May also be shown as 806f000f22010cff or 0x806f000f22010cff

  **Severity**
  Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - CPU

**SNMP Trap ID**
40

**CIM Information**
**Prefix:** PLAT **ID:** 0050

**User Response**
This is a UEFI detected event. The UEFI(POST) error code for this event can be found in the logged IMM message text. Please refer to the UEFI(POST) error code in the "UEFI(POST) error code" section of the Info Center for the appropriate user response. Firmware Error : Sys Boot Status :

- **806f000f-2201ffff : The System [ComputerSystemElementName] encountered a POST Error. (ABR Status)**

  This message is for the use case when an implementation has detected a Post Error.

  May also be shown as 806f000f2201ffff or 0x806f000f2201ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0184

  **User Response**
  This is a UEFI detected event. The UEFI(POST) error code for this event can be found in the logged IMM message text. Please refer to the UEFI(POST) error code in the "UEFI(POST) error code" section of the Information Center for the appropriate user response. Firmware Error : Sys Boot Status :

- **806f0013-1701ffff : A diagnostic interrupt has occurred on system [ComputerSystemElementName]. (NMI State)**

  This message is for the use case when an implementation has detected a Front Panel NMI / Diagnostic Interrupt.

  May also be shown as 806f00131701ffff or 0x806f00131701ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Other

**SNMP Trap ID**
50

**CIM Information**
**Prefix:** PLAT **ID:** 0222

**User Response**
If the NMI button has not been pressed, complete the following steps:

1. Make sure that the NMI button is not pressed.
2. Replace the operator information panel cable.
3. Replace the operator information panel.

- **806f0021-2201ffff : Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (No Op ROM Space)**

  This message is for the use case when an implementation has detected a Fault in a slot.

  May also be shown as 806f00212201ffff or 0x806f00212201ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0330

  **User Response**

  1. Check the PCI LED.
  2. Reseat the affected adapters and riser card.

3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
4. Remove both adapters.
5. Replace the riser card.
6. (Trained service technicians only) Replace the system board.

- **806f0021-2582ffff : Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (All PCI Error)**

  This message is for the use case when an implementation has detected a Fault in a slot.

  May also be shown as 806f00212582ffff or 0x806f00212582ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0330

  **User Response**

  1. Check the PCI LED.
  2. Reseat the affected adapters and riser card.
  3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
  4. Remove both adapters.
  5. Replace the riser card.
  6. (Trained service technicians only) Replace the system board.

- **806f0021-3001ffff : Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (PCI 1)**

  This message is for the use case when an implementation has detected a Fault in a slot.

  May also be shown as 806f00213001ffff or 0x806f00213001ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Other

**SNMP Trap ID**
50

**CIM Information**
**Prefix:** PLAT **ID:** 0330

**User Response**

1. Check the PCI LED.
2. Reseat the affected adapters and riser card.
3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
4. Remove both adapters.
5. Replace the riser card.
6. (Trained service technicians only) Replace the system board.

- **806f0021-3002ffff : Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (PCI 2)**

  This message is for the use case when an implementation has detected a Fault in a slot.

  May also be shown as 806f00213002ffff or 0x806f00213002ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0330

**User Response**

1. Check the PCI LED.
2. Reseat the affected adapters and riser card.
3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
4. Remove both adapters.
5. Replace the riser card.
6. (Trained service technicians only) Replace the system board.

- **806f0021-3003ffff : Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (PCI 3)**

  This message is for the use case when an implementation has detected a Fault in a slot.

  May also be shown as 806f00213003ffff or 0x806f00213003ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0330

  **User Response**

  1. Check the PCI LED.
  2. Reseat the affected adapters and riser card.
  3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
  4. Remove both adapters.
  5. Replace the riser card.
  6. (Trained service technicians only) Replace the system board.

- **806f0021-3004ffff : Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (PCI 4)**

  This message is for the use case when an implementation has detected a Fault in a slot.

  May also be shown as 806f00213004ffff or 0x806f00213004ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0330

  **User Response**

  1. Check the PCI LED.
  2. Reseat the affected adapters and riser card.
  3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
  4. Remove both adapters.
  5. Replace the riser card.
  6. (Trained service technicians only) Replace the system board.

- **806f0021-3005ffff : Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (PCI 5)**

  This message is for the use case when an implementation has detected a Fault in a slot.

  May also be shown as 806f00213005ffff or 0x806f00213005ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**

Critical - Other

**SNMP Trap ID**
50

**CIM Information**
**Prefix:** PLAT **ID:** 0330

**User Response**

1. Check the PCI LED.
2. Reseat the affected adapters and riser card.
3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
4. Remove both adapters.
5. Replace the riser card.
6. (Trained service technicians only) Replace the system board.

- **806f0021-3006ffff : Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (PCI 6)**

  This message is for the use case when an implementation has detected a Fault in a slot.

  May also be shown as 806f00213006ffff or 0x806f00213006ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0330

  **User Response**

  1. Check the PCI LED.
  2. Reseat the affected adapters and riser card.
  3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.

4. Remove both adapters.
5. Replace the riser card.
6. (Trained service technicians only) Replace the system board.

- **806f0021-3007ffff : Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (PCI 7)**

  This message is for the use case when an implementation has detected a Fault in a slot.

  May also be shown as 806f00213007ffff or 0x806f00213007ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0330

  **User Response**

  1. Check the PCI LED.
  2. Reseat the affected adapters and riser card.
  3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
  4. Remove both adapters.
  5. Replace the riser card.
  6. (Trained service technicians only) Replace the system board.

- **806f0021-3008ffff : Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (PCI 8)**

  This message is for the use case when an implementation has detected a Fault in a slot.

  May also be shown as 806f00213008ffff or 0x806f00213008ffff

  **Severity**
  Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Other

**SNMP Trap ID**
50

**CIM Information**
**Prefix:** PLAT **ID:** 0330

**User Response**

1. Check the PCI LED.
2. Reseat the affected adapters and riser card.
3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
4. Remove both adapters.
5. Replace the riser card.
6. (Trained service technicians only) Replace the system board.

- **806f0023-2101ffff : Watchdog Timer expired for [WatchdogElementName]. (IPMI Watchdog)**

  This message is for the use case when an implementation has detected a Watchdog Timer Expired.

  May also be shown as 806f00232101ffff or 0x806f00232101ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0368

  **User Response**
  No action; information only.

- **806f0028-2101ffff : Sensor [SensorElementName] is unavailable or degraded on management system [ComputerSystemElementName]. (TPM Cmd Failures)**

  This message is for the use case when an implementation has detected a Sensor is Unavailable or degraded.

  May also be shown as 806f00282101ffff or 0x806f00282101ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Other

  **SNMP Trap ID**
  60

  **CIM Information**
  **Prefix:** PLAT **ID:** 0398

  **User Response**

  1. Turn off the server and disconnect the power cords. Reconnect the power cords and restart the server.
  2. If the problem remains, (trained technician only) replace the system board.

- **806f0107-0301ffff : An Over-Temperature Condition has been detected on [ProcessorElementName]. (CPU 1)**

  This message is for the use case when an implementation has detected an Over-Temperature Condition Detected for Processor.

  May also be shown as 806f01070301ffff or 0x806f01070301ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0036

**User Response**

1. Make sure that the fans are operating. There are no obstructions to the airflow (front and rear of the server), the air baffles are in place and correctly installed, and the server cover is installed and completely closed.
2. Make sure that the heat sink for microprocessor n is installed correctly.
3. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

- **806f0107-0302ffff : An Over-Temperature Condition has been detected on [ProcessorElementName]. (CPU 2)**

  This message is for the use case when an implementation has detected an Over-Temperature Condition Detected for Processor.

  May also be shown as 806f01070302ffff or 0x806f01070302ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0036

  **User Response**

  1. Make sure that the fans are operating. There are no obstructions to the airflow (front and rear of the server), the air baffles are in place and correctly installed, and the server cover is installed and completely closed.
  2. Make sure that the heat sink for microprocessor n is installed correctly.
  3. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

- **806f0108-0a01ffff : [PowerSupplyElementName] has Failed. (Power Supply 1)**

  This message is for the use case when an implementation has detected a Power Supply has failed.

  May also be shown as 806f01080a01ffff or 0x806f01080a01ffff

  **Severity**
  Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Power

**SNMP Trap ID**
4

**CIM Information**
**Prefix:** PLAT **ID:** 0086

**User Response**

1. Reseat power supply n.
2. If the power-on LED is not lit and the power-supply error LED is lit, replace power supply n.
3. If both the power-on LED and the power-supply error LED are not lit, see Power problems for more information. (n = power supply number)

- **806f0108-0a02ffff : [PowerSupplyElementName] has Failed. (Power Supply 2)**

This message is for the use case when an implementation has detected a Power Supply has failed.

May also be shown as 806f01080a02ffff or 0x806f01080a02ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Power

**SNMP Trap ID**
4

**CIM Information**
**Prefix:** PLAT **ID:** 0086

**User Response**

1. Reseat power supply n.
2. If the power-on LED is not lit and the power-supply error LED is lit, replace power supply n.
3. If both the power-on LED and the power-supply error LED are not lit, see Power problems for more information. (n = power supply number)

- **806f0109-1301ffff : [PowerSupplyElementName] has been Power Cycled. (Host Power)**

This message is for the use case when an implementation has detected a Power Unit that has been power cycled.

May also be shown as 806f01091301ffff or 0x806f01091301ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0108

**User Response**
No action; information only.

- **806f010c-2001ffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c2001ffff or 0x806f010c2001ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0138

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.

3. If the problem follows the DIMM, replace the failing DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.
7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-2002ffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 2)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c2002ffff or 0x806f010c2002ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0138

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the problem follows the DIMM, replace the failing DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor.

7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-2003ffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 3)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c2003ffff or 0x806f010c2003ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0138

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the problem follows the DIMM, replace the failing DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor.
  7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
  8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-2004ffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 4)**

This message is for the use case when an implementation has detected a Memory uncorrectable error.

May also be shown as 806f010c2004ffff or 0x806f010c2004ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0138

**User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the problem follows the DIMM, replace the failing DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.
7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-2005ffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c2005ffff or 0x806f010c2005ffff

  **Severity**
  Error

  **Serviceable**
  Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0138

**User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the problem follows the DIMM, replace the failing DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.
7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-2006ffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 6)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c2006ffff or 0x806f010c2006ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0138

**User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the problem follows the DIMM, replace the failing DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.
7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-2007ffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 7)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c2007ffff or 0x806f010c2007ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0138

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the problem follows the DIMM, replace the failing DIMM.

4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.
7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-2008ffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 8)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c2008ffff or 0x806f010c2008ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0138

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the problem follows the DIMM, replace the failing DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor.
  7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.

8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-2009ffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 9)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c2009ffff or 0x806f010c2009ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0138

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the problem follows the DIMM, replace the failing DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor.
  7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
  8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-200affff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 10)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c200affff or 0x806f010c200affff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0138

**User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the problem follows the DIMM, replace the failing DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.
7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-200bffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c200bffff or 0x806f010c200bffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

**Alert Category**
Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0138

**User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the problem follows the DIMM, replace the failing DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.
7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-200cffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c200cffff or 0x806f010c200cffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0138

  **User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the problem follows the DIMM, replace the failing DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.
7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-200dffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 13)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c200dffff or 0x806f010c200dffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0138

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the problem follows the DIMM, replace the failing DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.

5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.
7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-200effff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 14)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c200effff or 0x806f010c200effff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0138

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the problem follows the DIMM, replace the failing DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor.
  7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
  8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-200fffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c200fffff or 0x806f010c200fffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0138

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the problem follows the DIMM, replace the failing DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor.
  7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
  8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-2010ffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 16)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c2010ffff or 0x806f010c2010ffff

  **Severity**

Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0138

**User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the problem follows the DIMM, replace the failing DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.
7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-2011ffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 17)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c2011ffff or 0x806f010c2011ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**

41

**CIM Information**
**Prefix:** PLAT **ID:** 0138

**User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the problem follows the DIMM, replace the failing DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.
7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-2012ffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 18)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c2012ffff or 0x806f010c2012ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0138

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.

2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the problem follows the DIMM, replace the failing DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.
7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-2013ffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 19)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c2013ffff or 0x806f010c2013ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0138

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the problem follows the DIMM, replace the failing DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.

6. (Trained technician only) Replace the affected microprocessor.
7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-2014ffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 20)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c2014ffff or 0x806f010c2014ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0138

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the problem follows the DIMM, replace the failing DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor.
  7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
  8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-2015ffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 21)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c2015ffff or 0x806f010c2015ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0138

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the problem follows the DIMM, replace the failing DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor.
  7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
  8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-2016ffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 22)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c2016ffff or 0x806f010c2016ffff

  **Severity**
  Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0138

**User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the problem follows the DIMM, replace the failing DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.
7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-2017ffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 23)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c2017ffff or 0x806f010c2017ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

**CIM Information**
**Prefix:** PLAT **ID:** 0138

**User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the problem follows the DIMM, replace the failing DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.
7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-2018ffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 24)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c2018ffff or 0x806f010c2018ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0138

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.

3. If the problem follows the DIMM, replace the failing DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.
7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
8. (Trained Service technician only) Replace the affected microprocessor.

- **806f010c-2581ffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (All DIMMS)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error.

  May also be shown as 806f010c2581ffff or 0x806f010c2581ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0138

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the problem follows the DIMM, replace the failing DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor.

7. Manually re-enable all affected DIMMs if the server firmware version is older than UEFI v1.10. If the server firmware version is UEFI v1.10 or newer, disconnect and reconnect the server to the power source and restart the server.
8. (Trained Service technician only) Replace the affected microprocessor. One of the DIMMs :

- **806f010d-0400ffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 0)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d0400ffff or 0x806f010d0400ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0164

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0401ffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 1)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d0401ffff or 0x806f010d0401ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**

Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0164

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0402ffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 2)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d0402ffff or 0x806f010d0402ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0164

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0403ffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 3)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d0403ffff or 0x806f010d0403ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0164

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0404ffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 4)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d0404ffff or 0x806f010d0404ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

**CIM Information**
**Prefix:** PLAT **ID:** 0164

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0405ffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 5)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d0405ffff or 0x806f010d0405ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0164

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0406ffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 6)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d0406ffff or 0x806f010d0406ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0164

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0407ffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 7)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d0407ffff or 0x806f010d0407ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0164

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.

2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0408ffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 8)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d0408ffff or 0x806f010d0408ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0164

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0409ffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 9)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d0409ffff or 0x806f010d0409ffff

  **Severity**
  Error

  **Serviceable**
  Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0164

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-040affff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 10)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d040affff or 0x806f010d040affff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0164

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-040bffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 11)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d040bffff or 0x806f010d040bffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0164

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-040cffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 12)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d040cffff or 0x806f010d040cffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

**CIM Information**
**Prefix:** PLAT **ID:** 0164

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-040dffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 13)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d040dffff or 0x806f010d040dffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0164

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-040effff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 14)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d040effff or 0x806f010d040effff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0164

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-040fffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 15)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d040fffff or 0x806f010d040fffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0164

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.

2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0410ffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 16)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d0410ffff or 0x806f010d0410ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0164

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0411ffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 17)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d0411ffff or 0x806f010d0411ffff

  **Severity**
  Error

  **Serviceable**
  Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0164

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0412ffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 18)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d0412ffff or 0x806f010d0412ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0164

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0413ffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 19)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d0413ffff or 0x806f010d0413ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0164

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0414ffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 20)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d0414ffff or 0x806f010d0414ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

**CIM Information**
**Prefix:** PLAT **ID:** 0164

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0415ffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 21)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d0415ffff or 0x806f010d0415ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0164

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0416ffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 22)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d0416ffff or 0x806f010d0416ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0164

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0417ffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 23)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d0417ffff or 0x806f010d0417ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0164

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.

2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0418ffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 24)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d0418ffff or 0x806f010d0418ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0164

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0419ffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 25)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d0419ffff or 0x806f010d0419ffff

  **Severity**
  Error

  **Serviceable**
  Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0164

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-041affff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 26)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d041affff or 0x806f010d041affff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0164

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-041bffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 27)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d041bffff or 0x806f010d041bffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0164

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-041cffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 28)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d041cffff or 0x806f010d041cffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

**CIM Information**
**Prefix:** PLAT **ID:** 0164

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-041dffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 29)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d041dffff or 0x806f010d041dffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0164

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-041effff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 30)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d041effff or 0x806f010d041effff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0164

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-041fffff : The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 31)**

  This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

  May also be shown as 806f010d041fffff or 0x806f010d041fffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0164

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.

2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010f-2201ffff : The System [ComputerSystemElementName] encountered a firmware hang. (Firmware Error)**

  This message is for the use case when an implementation has detected a System Firmware Hang.

  May also be shown as 806f010f2201ffff or 0x806f010f2201ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  System - Boot failure

  **SNMP Trap ID**
  25

  **CIM Information**
  **Prefix:** PLAT **ID:** 0186

  **User Response**

  1. Make sure the server meets the minimum configuration to start (see Power-supply LEDs).
  2. Update the server firmware on the primary page. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
  3. (Trained technician only) Replace the system board.

- **806f0113-0301ffff : A bus timeout has occurred on system [ComputerSystemElementName]. (CPU 1 PECI)**

  This message is for the use case when an implementation has detected a Bus Timeout.

  May also be shown as 806f01130301ffff or 0x806f01130301ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**

No

**Alert Category**
Critical - Other

**SNMP Trap ID**
50

**CIM Information**
**Prefix:** PLAT **ID:** 0224

**User Response**

1. Reseat the microprocessor, and then restart the server.
2. Replace microprocessor n. (n = microprocessor number)

- **806f0113-0302ffff : A bus timeout has occurred on system [ComputerSystemElementName]. (CPU 2 PECI)**

  This message is for the use case when an implementation has detected a Bus Timeout.

  May also be shown as 806f01130302ffff or 0x806f01130302ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0224

  **User Response**

  1. Reseat the microprocessor, and then restart the server.
  2. Replace microprocessor n. (n = microprocessor number)

- **806f0123-2101ffff : Reboot of system [ComputerSystemElementName] initiated by [WatchdogElementName]. (IPMI Watchdog)**

  This message is for the use case when an implementation has detected a Reboot by a Watchdog occurred.

  May also be shown as 806f01232101ffff or 0x806f01232101ffff

  **Severity**

Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0370

**User Response**
No action; information only.

- **806f0207-0301ffff : [ProcessorElementName] has Failed with FRB1/BIST condition. (CPU 1)**

  This message is for the use case when an implementation has detected a Processor Failed - FRB1/BIST condition.

  May also be shown as 806f02070301ffff or 0x806f02070301ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - CPU

  **SNMP Trap ID**
  40

  **CIM Information**
  **Prefix:** PLAT **ID:** 0044

  **User Response**

  1. Make sure that the latest levels of firmware and device drivers are installed for all adapters and standard devices, such as Ethernet, SCSI, and SAS. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
  2. Update the firmware (UEFI and IMM) to the latest level (Updating the firmware).
  3. Run the DSA program.
  4. Reseat the adapter.
  5. Replace the adapter.
  6. (Trained technician only) Replace microprocessor n.

7. (Trained technician only) Replace the system board. (n = microprocessor number)

- **806f0207-0302ffff : [ProcessorElementName] has Failed with FRB1/BIST condition. (CPU 2)**

  This message is for the use case when an implementation has detected a Processor Failed - FRB1/BIST condition.

  May also be shown as 806f02070302ffff or 0x806f02070302ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - CPU

  **SNMP Trap ID**
  40

  **CIM Information**
  **Prefix:** PLAT **ID:** 0044

  **User Response**

  1. Make sure that the latest levels of firmware and device drivers are installed for all adapters and standard devices, such as Ethernet, SCSI, and SAS. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
  2. Update the firmware (UEFI and IMM) to the latest level (Updating the firmware).
  3. Run the DSA program.
  4. Reseat the adapter.
  5. Replace the adapter.
  6. (Trained technician only) Replace microprocessor n.
  7. (Trained technician only) Replace the system board. (n = microprocessor number)

- **806f0207-2584ffff : [ProcessorElementName] has Failed with FRB1/BIST condition. (All CPUs)**

  This message is for the use case when an implementation has detected a Processor Failed - FRB1/BIST condition.

  May also be shown as 806f02072584ffff or 0x806f02072584ffff

  **Severity**
  Error

  **Serviceable**

Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - CPU

**SNMP Trap ID**
40

**CIM Information**
**Prefix:** PLAT **ID:** 0044

**User Response**

1. Make sure that the latest levels of firmware and device drivers are installed for all adapters and standard devices, such as Ethernet, SCSI, and SAS. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
2. Update the firmware (UEFI and IMM) to the latest level (Updating the firmware).
3. Run the DSA program.
4. Reseat the adapter.
5. Replace the adapter.
6. (Trained technician only) Replace microprocessor n.
7. (Trained technician only) Replace the system board. (n = microprocessor number) One of The CPUs :

- **806f020d-0400ffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 0)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d0400ffff or 0x806f020d0400ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0168

  **User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-0401ffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 1)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d0401ffff or 0x806f020d0401ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0168

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-0402ffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 2)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d0402ffff or 0x806f020d0402ffff

  **Severity**
  Warning

  **Serviceable**

Yes

**Automatically notify support**
Yes

**Alert Category**
System - Predicted Failure

**SNMP Trap ID**
27

**CIM Information**
**Prefix:** PLAT **ID:** 0168

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-0403ffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 3)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d0403ffff or 0x806f020d0403ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0168

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-0404ffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 4)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d0404ffff or 0x806f020d0404ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0168

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-0405ffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 5)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d0405ffff or 0x806f020d0405ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

**CIM Information**
**Prefix:** PLAT **ID:** 0168

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-0406ffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 6)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d0406ffff or 0x806f020d0406ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0168

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-0407ffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 7)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d0407ffff or 0x806f020d0407ffff

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
System - Predicted Failure

**SNMP Trap ID**
27

**CIM Information**
**Prefix:** PLAT **ID:** 0168

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-0408ffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 8)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d0408ffff or 0x806f020d0408ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0168

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.

2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-0409ffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 9)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d0409ffff or 0x806f020d0409ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0168

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-040affff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 10)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d040affff or 0x806f020d040affff

  **Severity**
  Warning

  **Serviceable**
  Yes

**Automatically notify support**
Yes

**Alert Category**
System - Predicted Failure

**SNMP Trap ID**
27

**CIM Information**
**Prefix:** PLAT **ID:** 0168

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-040bffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 11)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d040bffff or 0x806f020d040bffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0168

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-040cffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 12)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d040cffff or 0x806f020d040cffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0168

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-040dffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 13)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d040dffff or 0x806f020d040dffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

**CIM Information**
**Prefix:** PLAT **ID:** 0168

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-040effff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 14)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d040effff or 0x806f020d040effff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0168

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-040fffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 15)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d040fffff or 0x806f020d040fffff

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
System - Predicted Failure

**SNMP Trap ID**
27

**CIM Information**
**Prefix:** PLAT **ID:** 0168

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-0410ffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 16)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d0410ffff or 0x806f020d0410ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0168

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.

2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-0411ffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 17)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d0411ffff or 0x806f020d0411ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0168

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-0412ffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 18)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d0412ffff or 0x806f020d0412ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

**Automatically notify support**
Yes

**Alert Category**
System - Predicted Failure

**SNMP Trap ID**
27

**CIM Information**
**Prefix:** PLAT **ID:** 0168

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-0413ffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 19)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d0413ffff or 0x806f020d0413ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0168

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-0414ffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 20)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d0414ffff or 0x806f020d0414ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0168

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-0415ffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 21)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d0415ffff or 0x806f020d0415ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

**CIM Information**
**Prefix:** PLAT **ID:** 0168

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-0416ffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 22)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d0416ffff or 0x806f020d0416ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0168

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-0417ffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 23)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d0417ffff or 0x806f020d0417ffff

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
System - Predicted Failure

**SNMP Trap ID**
27

**CIM Information**
**Prefix:** PLAT **ID:** 0168

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-0418ffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 24)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d0418ffff or 0x806f020d0418ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0168

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.

2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-0419ffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 25)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d0419ffff or 0x806f020d0419ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0168

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-041affff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 26)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d041affff or 0x806f020d041affff

  **Severity**
  Warning

  **Serviceable**
  Yes

**Automatically notify support**
Yes

**Alert Category**
System - Predicted Failure

**SNMP Trap ID**
27

**CIM Information**
**Prefix:** PLAT **ID:** 0168

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-041bffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 27)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d041bffff or 0x806f020d041bffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0168

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-041cffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 28)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d041cffff or 0x806f020d041cffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0168

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-041dffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 29)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d041dffff or 0x806f020d041dffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

**CIM Information**
**Prefix:** PLAT **ID:** 0168

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-041effff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 30)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d041effff or 0x806f020d041effff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0168

  **User Response**

  1. Run the hard disk drive diagnostic test on drive n.
  2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
  3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f020d-041fffff : Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 31)**

  This message is for the use case when an implementation has detected an Array Failure is Predicted.

  May also be shown as 806f020d041fffff or 0x806f020d041fffff

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
System - Predicted Failure

**SNMP Trap ID**
27

**CIM Information**
**Prefix:** PLAT **ID:** 0168

**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive b. Cable from the system board to the backplane.
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive. b. Cable from the system board to the backplane. c. Hard disk drive backplane. (n = hard disk drive number)

- **806f0223-2101ffff : Powering off system [ComputerSystemElementName] initiated by [WatchdogElementName]. (IPMI Watchdog)**

  This message is for the use case when an implementation has detected a Poweroff by Watchdog has occurred.

  May also be shown as 806f02232101ffff or 0x806f02232101ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0372

  **User Response**
  No action; information only.

- **806f0308-0a01ffff : [PowerSupplyElementName] has lost input. (Power Supply 1)**

  This message is for the use case when an implementation has detected a Power Supply that has input that has been lost.

  May also be shown as 806f03080a01ffff or 0x806f03080a01ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0100

  **User Response**

  1. Reconnect the power cords.
  2. Check power supply n LED.
  3. See Power-supply LEDs for more information. (n = power supply number)

- **806f0308-0a02ffff : [PowerSupplyElementName] has lost input. (Power Supply 2)**

  This message is for the use case when an implementation has detected a Power Supply that has input that has been lost.

  May also be shown as 806f03080a02ffff or 0x806f03080a02ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0100

**User Response**

1. Reconnect the power cords.
2. Check power supply n LED.
3. See Power-supply LEDs for more information. (n = power supply number)

- **806f030c-2001ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c2001ffff or 0x806f030c2001ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0136

  **User Response**
  Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
  3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
  4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-2002ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 2)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c2002ffff or 0x806f030c2002ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0136

  **User Response**
  Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
  3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
  4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-2003ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 3)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c2003ffff or 0x806f030c2003ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0136

**User Response**
Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-2004ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 4)**

This message is for the use case when an implementation has detected a Memory Scrub failure.

May also be shown as 806f030c2004ffff or 0x806f030c2004ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**

Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0136

**User Response**
Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-2005ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c2005ffff or 0x806f030c2005ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0136

  **User Response**

Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-2006ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 6)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c2006ffff or 0x806f030c2006ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0136

  **User Response**
  Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
  3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.

4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-2007ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 7)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c2007ffff or 0x806f030c2007ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0136

  **User Response**
  Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.
  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
  3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
  4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.

6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-2008ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 8)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c2008ffff or 0x806f030c2008ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0136

  **User Response**
  Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
  3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
  4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-2009ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 9)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c2009ffff or 0x806f030c2009ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0136

  **User Response**
  Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
  3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
  4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-200affff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 10)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c200affff or 0x806f030c200affff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0136

**User Response**
Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-200bffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c200bffff or 0x806f030c200bffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**

Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0136

**User Response**
Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-200cffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c200cffff or 0x806f030c200cffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0136

  **User Response**

Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-200dffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 13)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c200dffff or 0x806f030c200dffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0136

  **User Response**
  Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
  3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.

4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-200effff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 14)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c200effff or 0x806f030c200effff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0136

  **User Response**
  Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.
  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
  3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
  4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.

6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-200fffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c200fffff or 0x806f030c200fffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0136

  **User Response**
  Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
  3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
  4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-2010ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 16)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c2010ffff or 0x806f030c2010ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0136

  **User Response**
  Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
  3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
  4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-2011ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 17)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c2011ffff or 0x806f030c2011ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0136

**User Response**
Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-2012ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 18)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c2012ffff or 0x806f030c2012ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**

Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0136

**User Response**
Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-2013ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 19)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c2013ffff or 0x806f030c2013ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0136

  **User Response**

Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-2014ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 20)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c2014ffff or 0x806f030c2014ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0136

  **User Response**
  Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
  3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.

4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-2015ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 21)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c2015ffff or 0x806f030c2015ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0136

  **User Response**
  Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.
  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
  3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
  4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.

6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-2016ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 22)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c2016ffff or 0x806f030c2016ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0136

  **User Response**
  Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
  3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
  4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-2017ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 23)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c2017ffff or 0x806f030c2017ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0136

  **User Response**
  Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
  3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
  4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f030c-2018ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 24)**

  This message is for the use case when an implementation has detected a Memory Scrub failure.

  May also be shown as 806f030c2018ffff or 0x806f030c2018ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0136

**User Response**
Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
3. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
4. If the problem occurs on the same DIMM connector, swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
5. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
6. (Trained service technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
7. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

- **806f0313-1701ffff : A software NMI has occurred on system [ComputerSystemElementName]. (NMI State)**

This message is for the use case when an implementation has detected a Software NMI.

May also be shown as 806f03131701ffff or 0x806f03131701ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**

Critical - Other

**SNMP Trap ID**
50

**CIM Information**
**Prefix:** PLAT **ID:** 0228

**User Response**

1. Check the device driver.
2. Reinstall the device driver.
3. Update all device drivers to the latest level.
4. Update the firmware (UEFI and IMM).

- **806f0323-2101ffff : Power cycle of system [ComputerSystemElementName] initiated by watchdog [WatchdogElementName]. (IPMI Watchdog)**

  This message is for the use case when an implementation has detected a Power Cycle by Watchdog occurred.

  May also be shown as 806f03232101ffff or 0x806f03232101ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0374

  **User Response**
  No action; information only.

- **806f040c-2001ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 1)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c2001ffff or 0x806f040c2001ffff

  **Severity**
  Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0131

**User Response**

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2002ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 2)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c2002ffff or 0x806f040c2002ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0131

  **User Response**

  1. Make sure the DIMM is installed correctly.
  2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.

3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2003ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 3)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c2003ffff or 0x806f040c2003ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0131

  **User Response**

  1. Make sure the DIMM is installed correctly.
  2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
  3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2004ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 4)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c2004ffff or 0x806f040c2004ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0131

**User Response**

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2005ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 5)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c2005ffff or 0x806f040c2005ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0131

  **User Response**

  1. Make sure the DIMM is installed correctly.
  2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
  3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2006ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 6)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c2006ffff or 0x806f040c2006ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0131

  **User Response**

  1. Make sure the DIMM is installed correctly.
  2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
  3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2007ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 7)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c2007ffff or 0x806f040c2007ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0131

**User Response**

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2008ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 8)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c2008ffff or 0x806f040c2008ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0131

  **User Response**

  1. Make sure the DIMM is installed correctly.
  2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
  3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2009ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 9)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c2009ffff or 0x806f040c2009ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0131

**User Response**

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-200affff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 10)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c200affff or 0x806f040c200affff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0131

  **User Response**

  1. Make sure the DIMM is installed correctly.

2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-200bffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 11)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c200bffff or 0x806f040c200bffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0131

  **User Response**

  1. Make sure the DIMM is installed correctly.
  2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
  3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-200cffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 12)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c200cffff or 0x806f040c200cffff

  **Severity**
  Info

  **Serviceable**
  No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0131

**User Response**

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-200dffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 13)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c200dffff or 0x806f040c200dffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0131

  **User Response**

  1. Make sure the DIMM is installed correctly.
  2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
  3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-200effff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 14)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c200effff or 0x806f040c200effff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0131

  **User Response**

  1. Make sure the DIMM is installed correctly.
  2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
  3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-200fffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 15)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c200fffff or 0x806f040c200fffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0131

**User Response**

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2010ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 16)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c2010ffff or 0x806f040c2010ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0131

  **User Response**

  1. Make sure the DIMM is installed correctly.
  2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
  3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2011ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 17)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c2011ffff or 0x806f040c2011ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0131

**User Response**

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2012ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 18)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c2012ffff or 0x806f040c2012ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0131

  **User Response**

  1. Make sure the DIMM is installed correctly.

2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2013ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 19)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c2013ffff or 0x806f040c2013ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0131

  **User Response**

  1. Make sure the DIMM is installed correctly.
  2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
  3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2014ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 20)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c2014ffff or 0x806f040c2014ffff

  **Severity**
  Info

  **Serviceable**
  No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0131

**User Response**

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2015ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 21)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c2015ffff or 0x806f040c2015ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0131

  **User Response**

  1. Make sure the DIMM is installed correctly.
  2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
  3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2016ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 22)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c2016ffff or 0x806f040c2016ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0131

  **User Response**

  1. Make sure the DIMM is installed correctly.
  2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
  3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2017ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 23)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c2017ffff or 0x806f040c2017ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0131

**User Response**

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2018ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 24)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c2018ffff or 0x806f040c2018ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0131

  **User Response**

  1. Make sure the DIMM is installed correctly.
  2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
  3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2581ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (All DIMMS)**

  This message is for the use case when an implementation has detected that Memory has been Disabled.

  May also be shown as 806f040c2581ffff or 0x806f040c2581ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0131

**User Response**

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU). One of the DIMMs :

- **806f0413-2582ffff : A PCI PERR has occurred on system [ComputerSystemElementName]. (PCIs)**

  This message is for the use case when an implementation has detected a PCI PERR.

  May also be shown as 806f04132582ffff or 0x806f04132582ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0232

  **User Response**

  1. Check the PCI LED.

2. Reseat the affected adapters and riser cards.
3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
4. Remove both adapters.
5. Replace the PCIe adapters.
6. Replace the riser card.

- **806f0507-0301ffff : [ProcessorElementName] has a Configuration Mismatch. (CPU 1)**

  This message is for the use case when an implementation has detected a Processor Configuration Mismatch has occurred.

  May also be shown as 806f05070301ffff or 0x806f05070301ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - CPU

  **SNMP Trap ID**
  40

  **CIM Information**
  **Prefix:** PLAT **ID:** 0062

  **User Response**

  1. Check the CPU LED. See more information about the CPU LED in Light path diagnostics.
  2. Check for a server firmware update. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
  3. Make sure that the installed microprocessors are compatible with each other.
  4. (Trained technician only) Reseat microprocessor n.
  5. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

- **806f0507-0302ffff : [ProcessorElementName] has a Configuration Mismatch. (CPU 2)**

  This message is for the use case when an implementation has detected a Processor Configuration Mismatch has occurred.

  May also be shown as 806f05070302ffff or 0x806f05070302ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - CPU

**SNMP Trap ID**
40

**CIM Information**
**Prefix:** PLAT **ID:** 0062

**User Response**

1. Check the CPU LED. See more information about the CPU LED in Light path diagnostics.
2. Check for a server firmware update. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
3. Make sure that the installed microprocessors are compatible with each other.
4. (Trained technician only) Reseat microprocessor n.
5. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

- **806f0507-2584ffff : [ProcessorElementName] has a Configuration Mismatch. (All CPUs)**

This message is for the use case when an implementation has detected a Processor Configuration Mismatch has occurred.

May also be shown as 806f05072584ffff or 0x806f05072584ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - CPU

**SNMP Trap ID**
40

**CIM Information**
**Prefix:** PLAT **ID:** 0062

**User Response**

1. Check the CPU LED. See more information about the CPU LED in Light path diagnostics.

2. Check for a server firmware update. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
3. Make sure that the installed microprocessors are compatible with each other.
4. (Trained technician only) Reseat microprocessor n.
5. (Trained technician only) Replace microprocessor n. (n = microprocessor number) One of The CPUs :

- **806f050c-2001ffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c2001ffff or 0x806f050c2001ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0144

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the error still occurs on the same DIMM, replace the affected DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-2002ffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 2)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

May also be shown as 806f050c2002ffff or 0x806f050c2002ffff

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Warning - Memory

**SNMP Trap ID**
43

**CIM Information**
**Prefix:** PLAT **ID:** 0144

**User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the error still occurs on the same DIMM, replace the affected DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-2003ffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 3)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c2003ffff or 0x806f050c2003ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

**Alert Category**
Warning - Memory

**SNMP Trap ID**
43

**CIM Information**
**Prefix:** PLAT **ID:** 0144

**User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the error still occurs on the same DIMM, replace the affected DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-2004ffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 4)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c2004ffff or 0x806f050c2004ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0144

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.

2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the error still occurs on the same DIMM, replace the affected DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-2005ffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c2005ffff or 0x806f050c2005ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0144

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the error still occurs on the same DIMM, replace the affected DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-2006ffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 6)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c2006ffff or 0x806f050c2006ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0144

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the error still occurs on the same DIMM, replace the affected DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-2007ffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 7)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c2007ffff or 0x806f050c2007ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

**Automatically notify support**
Yes

**Alert Category**
Warning - Memory

**SNMP Trap ID**
43

**CIM Information**
**Prefix:** PLAT **ID:** 0144

**User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the error still occurs on the same DIMM, replace the affected DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-2008ffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 8)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c2008ffff or 0x806f050c2008ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0144

  **User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the error still occurs on the same DIMM, replace the affected DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-2009ffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 9)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c2009ffff or 0x806f050c2009ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0144

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the error still occurs on the same DIMM, replace the affected DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-200affff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 10)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c200affff or 0x806f050c200affff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0144

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the error still occurs on the same DIMM, replace the affected DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-200bffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c200bffff or 0x806f050c200bffff

  **Severity**
  Warning

  **Serviceable**

Yes

**Automatically notify support**
Yes

**Alert Category**
Warning - Memory

**SNMP Trap ID**
43

**CIM Information**
**Prefix:** PLAT **ID:** 0144

**User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the error still occurs on the same DIMM, replace the affected DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-200cffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c200cffff or 0x806f050c200cffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0144

  **User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the error still occurs on the same DIMM, replace the affected DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-200dffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 13)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c200dffff or 0x806f050c200dffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0144

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the error still occurs on the same DIMM, replace the affected DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-200effff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 14)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c200effff or 0x806f050c200effff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0144

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the error still occurs on the same DIMM, replace the affected DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-200fffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c200fffff or 0x806f050c200fffff

  **Severity**
  Warning

  **Serviceable**

Yes

**Automatically notify support**
Yes

**Alert Category**
Warning - Memory

**SNMP Trap ID**
43

**CIM Information**
**Prefix:** PLAT **ID:** 0144

**User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the error still occurs on the same DIMM, replace the affected DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-2010ffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 16)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c2010ffff or 0x806f050c2010ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0144

  **User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the error still occurs on the same DIMM, replace the affected DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-2011ffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 17)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c2011ffff or 0x806f050c2011ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0144

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the error still occurs on the same DIMM, replace the affected DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-2012ffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 18)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c2012ffff or 0x806f050c2012ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0144

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the error still occurs on the same DIMM, replace the affected DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-2013ffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 19)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c2013ffff or 0x806f050c2013ffff

  **Severity**
  Warning

  **Serviceable**

Yes

**Automatically notify support**
Yes

**Alert Category**
Warning - Memory

**SNMP Trap ID**
43

**CIM Information**
**Prefix:** PLAT **ID:** 0144

**User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the error still occurs on the same DIMM, replace the affected DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-2014ffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 20)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c2014ffff or 0x806f050c2014ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0144

  **User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the error still occurs on the same DIMM, replace the affected DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-2015ffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 21)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c2015ffff or 0x806f050c2015ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0144

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the error still occurs on the same DIMM, replace the affected DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-2016ffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 22)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c2016ffff or 0x806f050c2016ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0144

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the error still occurs on the same DIMM, replace the affected DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-2017ffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 23)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c2017ffff or 0x806f050c2017ffff

  **Severity**
  Warning

  **Serviceable**

Yes

**Automatically notify support**
Yes

**Alert Category**
Warning - Memory

**SNMP Trap ID**
43

**CIM Information**
**Prefix:** PLAT **ID:** 0144

**User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the error still occurs on the same DIMM, replace the affected DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-2018ffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 24)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c2018ffff or 0x806f050c2018ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0144

  **User Response**

1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
3. If the error still occurs on the same DIMM, replace the affected DIMM.
4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
6. (Trained technician only) Replace the affected microprocessor.

- **806f050c-2581ffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (All DIMMS)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

  May also be shown as 806f050c2581ffff or 0x806f050c2581ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0144

  **User Response**

  1. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
  2. Swap the affected DIMMs (as indicated by the error LEDs on the system board or the event logs) to a different memory channel or microprocessor.
  3. If the error still occurs on the same DIMM, replace the affected DIMM.
  4. (Trained technician only) If the problem occurs on the same DIMM connector, check the DIMM connector. If the connector contains any foreign material or is damaged, replace the system board.
  5. (Trained technician only) Remove the affected microprocessor and check the microprocessor socket pins for any damaged pins. If a damage is found, replace the system board.
  6. (Trained technician only) Replace the affected microprocessor. One of the DIMMs :

- **806f050d-0400ffff : Array [ComputerSystemElementName] is in critical condition. (Drive 0)**

  This message is for the use case when an implementation has detected that an Array is Critical.

  May also be shown as 806f050d0400ffff or 0x806f050d0400ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0174

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
  2. Make sure that the SAS cable is connected correctly.
  3. Replace the SAS cable.
  4. Check backplane cable connection.
  5. Replace the RAID adapter.
  6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0401ffff : Array [ComputerSystemElementName] is in critical condition. (Drive 1)**

  This message is for the use case when an implementation has detected that an Array is Critical.

  May also be shown as 806f050d0401ffff or 0x806f050d0401ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0402ffff : Array [ComputerSystemElementName] is in critical condition. (Drive 2)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0402ffff or 0x806f050d0402ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0403ffff : Array [ComputerSystemElementName] is in critical condition. (Drive 3)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0403ffff or 0x806f050d0403ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0404ffff : Array [ComputerSystemElementName] is in critical condition. (Drive 4)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0404ffff or 0x806f050d0404ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.

2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0405ffff : Array [ComputerSystemElementName] is in critical condition. (Drive 5)**

  This message is for the use case when an implementation has detected that an Array is Critical.

  May also be shown as 806f050d0405ffff or 0x806f050d0405ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0174

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
  2. Make sure that the SAS cable is connected correctly.
  3. Replace the SAS cable.
  4. Check backplane cable connection.
  5. Replace the RAID adapter.
  6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0406ffff : Array [ComputerSystemElementName] is in critical condition. (Drive 6)**

  This message is for the use case when an implementation has detected that an Array is Critical.

  May also be shown as 806f050d0406ffff or 0x806f050d0406ffff

  **Severity**
  Error

  **Serviceable**
  Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0407ffff : Array [ComputerSystemElementName] is in critical condition. (Drive 7)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0407ffff or 0x806f050d0407ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0408ffff : Array [ComputerSystemElementName] is in critical condition. (Drive 8)**

  This message is for the use case when an implementation has detected that an Array is Critical.

  May also be shown as 806f050d0408ffff or 0x806f050d0408ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0174

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
  2. Make sure that the SAS cable is connected correctly.
  3. Replace the SAS cable.
  4. Check backplane cable connection.
  5. Replace the RAID adapter.
  6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0409ffff : Array [ComputerSystemElementName] is in critical condition. (Drive 9)**

  This message is for the use case when an implementation has detected that an Array is Critical.

  May also be shown as 806f050d0409ffff or 0x806f050d0409ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-040affff : Array [ComputerSystemElementName] is in critical condition. (Drive 10)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d040affff or 0x806f050d040affff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-040bffff : Array [ComputerSystemElementName] is in critical condition. (Drive 11)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d040bffff or 0x806f050d040bffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-040cffff : Array [ComputerSystemElementName] is in critical condition. (Drive 12)**

  This message is for the use case when an implementation has detected that an Array is Critical.

  May also be shown as 806f050d040cffff or 0x806f050d040cffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0174

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.

2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-040dffff : Array [ComputerSystemElementName] is in critical condition. (Drive 13)**

  This message is for the use case when an implementation has detected that an Array is Critical.

  May also be shown as 806f050d040dffff or 0x806f050d040dffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0174

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
  2. Make sure that the SAS cable is connected correctly.
  3. Replace the SAS cable.
  4. Check backplane cable connection.
  5. Replace the RAID adapter.
  6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-040effff : Array [ComputerSystemElementName] is in critical condition. (Drive 14)**

  This message is for the use case when an implementation has detected that an Array is Critical.

  May also be shown as 806f050d040effff or 0x806f050d040effff

  **Severity**
  Error

  **Serviceable**
  Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-040fffff : Array [ComputerSystemElementName] is in critical condition. (Drive 15)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d040fffff or 0x806f050d040fffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0410ffff : Array [ComputerSystemElementName] is in critical condition. (Drive 16)**

  This message is for the use case when an implementation has detected that an Array is Critical.

  May also be shown as 806f050d0410ffff or 0x806f050d0410ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0174

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
  2. Make sure that the SAS cable is connected correctly.
  3. Replace the SAS cable.
  4. Check backplane cable connection.
  5. Replace the RAID adapter.
  6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0411ffff : Array [ComputerSystemElementName] is in critical condition. (Drive 17)**

  This message is for the use case when an implementation has detected that an Array is Critical.

  May also be shown as 806f050d0411ffff or 0x806f050d0411ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0412ffff : Array [ComputerSystemElementName] is in critical condition. (Drive 18)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0412ffff or 0x806f050d0412ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0413ffff : Array [ComputerSystemElementName] is in critical condition. (Drive 19)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0413ffff or 0x806f050d0413ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0414ffff : Array [ComputerSystemElementName] is in critical condition. (Drive 20)**

  This message is for the use case when an implementation has detected that an Array is Critical.

  May also be shown as 806f050d0414ffff or 0x806f050d0414ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0174

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.

2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0415ffff : Array [ComputerSystemElementName] is in critical condition. (Drive 21)**

  This message is for the use case when an implementation has detected that an Array is Critical.

  May also be shown as 806f050d0415ffff or 0x806f050d0415ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0174

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
  2. Make sure that the SAS cable is connected correctly.
  3. Replace the SAS cable.
  4. Check backplane cable connection.
  5. Replace the RAID adapter.
  6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0416ffff : Array [ComputerSystemElementName] is in critical condition. (Drive 22)**

  This message is for the use case when an implementation has detected that an Array is Critical.

  May also be shown as 806f050d0416ffff or 0x806f050d0416ffff

  **Severity**
  Error

  **Serviceable**
  Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0417ffff : Array [ComputerSystemElementName] is in critical condition. (Drive 23)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0417ffff or 0x806f050d0417ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0418ffff : Array [ComputerSystemElementName] is in critical condition. (Drive 24)**

  This message is for the use case when an implementation has detected that an Array is Critical.

  May also be shown as 806f050d0418ffff or 0x806f050d0418ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0174

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
  2. Make sure that the SAS cable is connected correctly.
  3. Replace the SAS cable.
  4. Check backplane cable connection.
  5. Replace the RAID adapter.
  6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0419ffff : Array [ComputerSystemElementName] is in critical condition. (Drive 25)**

  This message is for the use case when an implementation has detected that an Array is Critical.

  May also be shown as 806f050d0419ffff or 0x806f050d0419ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-041affff : Array [ComputerSystemElementName] is in critical condition. (Drive 26)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d041affff or 0x806f050d041affff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-041bffff : Array [ComputerSystemElementName] is in critical condition. (Drive 27)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d041bffff or 0x806f050d041bffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-041cffff : Array [ComputerSystemElementName] is in critical condition. (Drive 28)**

  This message is for the use case when an implementation has detected that an Array is Critical.

  May also be shown as 806f050d041cffff or 0x806f050d041cffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0174

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.

2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-041dffff : Array [ComputerSystemElementName] is in critical condition. (Drive 29)**

  This message is for the use case when an implementation has detected that an Array is Critical.

  May also be shown as 806f050d041dffff or 0x806f050d041dffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0174

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
  2. Make sure that the SAS cable is connected correctly.
  3. Replace the SAS cable.
  4. Check backplane cable connection.
  5. Replace the RAID adapter.
  6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-041effff : Array [ComputerSystemElementName] is in critical condition. (Drive 30)**

  This message is for the use case when an implementation has detected that an Array is Critical.

  May also be shown as 806f050d041effff or 0x806f050d041effff

  **Severity**
  Error

  **Serviceable**
  Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-041fffff : Array [ComputerSystemElementName] is in critical condition. (Drive 31)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d041fffff or 0x806f050d041fffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0174

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f0513-2582ffff : A PCI SERR has occurred on system [ComputerSystemElementName]. (PCIs)**

  This message is for the use case when an implementation has detected a PCI SERR.

  May also be shown as 806f05132582ffff or 0x806f05132582ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0234

  **User Response**

  1. Check the PCI LED.
  2. Reseat the affected adapters and riser card.
  3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
  4. Make sure that the adapter is supported. For a list of supported optional devices, see http://www.ibm.com/systems/info/x86servers/serverproven/compat/us/.
  5. Remove both adapters.
  6. Replace the PCIe adapters.
  7. Replace the riser card.

- **806f052b-2101ffff : Invalid or Unsupported firmware or software was detected on system [ComputerSystemElementName]. (IMM2 FW Failover)**

  This message is for the use case when an implementation has detected an Invalid/Unsupported Firmware/Software Version.

  May also be shown as 806f052b2101ffff or 0x806f052b2101ffff

  **Severity**
  Error

  **Serviceable**
  Yes

**Automatically notify support**
No

**Alert Category**
Critical - Other

**SNMP Trap ID**
50

**CIM Information**
**Prefix:** PLAT **ID:** 0446

**User Response**

1. Make sure the server meets the minimum configuration to start (see Power-supply LEDs).
2. Recover the server firmware from the backup page by restarting the server.
3. Update the server firmware to the latest level (see Updating the firmware). Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
4. Remove components one at a time, restarting the server each time, to see if the problem goes away.
5. If the problem remains, (trained service technician) replace the system board.

- **806f0607-0301ffff : An SM BIOS Uncorrectable CPU complex error for [ProcessorElementName] has asserted. (CPU 1)**

  This message is for the use case when an SM BIOS Uncorrectable CPU complex error has asserted.

  May also be shown as 806f06070301ffff or 0x806f06070301ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - CPU

  **SNMP Trap ID**
  40

  **CIM Information**
  **Prefix:** PLAT **ID:** 0816

  **User Response**

  1. Make sure that the installed microprocessors are compatible with each other (see Installing a microprocessor and heat sink for information about microprocessor requirements).
  2. Update the server firmware to the latest level (see Updating the firmware).
  3. (Trained technician only) Replace the incompatible microprocessor.

- **806f0607-0302ffff : An SM BIOS Uncorrectable CPU complex error for [ProcessorElementName] has asserted. (CPU 2)**

  This message is for the use case when an SM BIOS Uncorrectable CPU complex error has asserted.

  May also be shown as 806f06070302ffff or 0x806f06070302ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - CPU

  **SNMP Trap ID**
  40

  **CIM Information**
  **Prefix:** PLAT **ID:** 0816

  **User Response**

  1. Make sure that the installed microprocessors are compatible with each other (see Installing a microprocessor and heat sink for information about microprocessor requirements).
  2. Update the server firmware to the latest level (see Updating the firmware).
  3. (Trained technician only) Replace the incompatible microprocessor.

- **806f0607-2584ffff : An SM BIOS Uncorrectable CPU complex error for [ProcessorElementName] has asserted. (All CPUs)**

  This message is for the use case when an SM BIOS Uncorrectable CPU complex error has asserted.

  May also be shown as 806f06072584ffff or 0x806f06072584ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - CPU

  **SNMP Trap ID**
  40

  **CIM Information**

**Prefix:** PLAT **ID:** 0816

**User Response**

1. Make sure that the installed microprocessors are compatible with each other (see Installing a microprocessor and heat sink for information about microprocessor requirements).
2. Update the server firmware to the latest level (see Updating the firmware).
3. (Trained technician only) Replace the incompatible microprocessor. One of The CPUs :

- **806f0608-1301ffff : [PowerSupplyElementName] has a Configuration Mismatch. (PS Configuration)**

  This message is for the use case when an implementation has detected a Power Supply with a Configuration Error.

  May also be shown as 806f06081301ffff or 0x806f06081301ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Power

  **SNMP Trap ID**
  4

  **CIM Information**
  **Prefix:** PLAT **ID:** 0104

  **User Response**

  1. Make sure that the power supplies installed are with the same rating or wattage.
  2. Reinstall the power supplies with the same rating or wattage.

- **806f060d-0400ffff : Array [ComputerSystemElementName] has failed. (Drive 0)**

  This message is for the use case when an implementation has detected that an Array Failed.

  May also be shown as 806f060d0400ffff or 0x806f060d0400ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0401ffff : Array [ComputerSystemElementName] has failed. (Drive 1)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0401ffff or 0x806f060d0401ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0402ffff : Array [ComputerSystemElementName] has failed. (Drive 2)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0402ffff or 0x806f060d0402ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0403ffff : Array [ComputerSystemElementName] has failed. (Drive 3)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0403ffff or 0x806f060d0403ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.

2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0404ffff : Array [ComputerSystemElementName] has failed. (Drive 4)**

  This message is for the use case when an implementation has detected that an Array Failed.

  May also be shown as 806f060d0404ffff or 0x806f060d0404ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0176

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
  2. Make sure that the SAS cable is connected correctly.
  3. Replace the SAS cable.
  4. Replace the RAID adapter.
  5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0405ffff : Array [ComputerSystemElementName] has failed. (Drive 5)**

  This message is for the use case when an implementation has detected that an Array Failed.

  May also be shown as 806f060d0405ffff or 0x806f060d0405ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0406ffff : Array [ComputerSystemElementName] has failed. (Drive 6)**

  This message is for the use case when an implementation has detected that an Array Failed.

  May also be shown as 806f060d0406ffff or 0x806f060d0406ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0176

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
  2. Make sure that the SAS cable is connected correctly.
  3. Replace the SAS cable.
  4. Replace the RAID adapter.
  5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0407ffff : Array [ComputerSystemElementName] has failed. (Drive 7)**

  This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0407ffff or 0x806f060d0407ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0408ffff : Array [ComputerSystemElementName] has failed. (Drive 8)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0408ffff or 0x806f060d0408ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.

2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0409ffff : Array [ComputerSystemElementName] has failed. (Drive 9)**

  This message is for the use case when an implementation has detected that an Array Failed.

  May also be shown as 806f060d0409ffff or 0x806f060d0409ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0176

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
  2. Make sure that the SAS cable is connected correctly.
  3. Replace the SAS cable.
  4. Replace the RAID adapter.
  5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-040affff : Array [ComputerSystemElementName] has failed. (Drive 10)**

  This message is for the use case when an implementation has detected that an Array Failed.

  May also be shown as 806f060d040affff or 0x806f060d040affff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-040bffff : Array [ComputerSystemElementName] has failed. (Drive 11)**

  This message is for the use case when an implementation has detected that an Array Failed.

  May also be shown as 806f060d040bffff or 0x806f060d040bffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0176

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
  2. Make sure that the SAS cable is connected correctly.
  3. Replace the SAS cable.
  4. Replace the RAID adapter.
  5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-040cffff : Array [ComputerSystemElementName] has failed. (Drive 12)**

  This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d040cffff or 0x806f060d040cffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-040dffff : Array [ComputerSystemElementName] has failed. (Drive 13)**

  This message is for the use case when an implementation has detected that an Array Failed.

  May also be shown as 806f060d040dffff or 0x806f060d040dffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0176

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.

2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-040effff : Array [ComputerSystemElementName] has failed. (Drive 14)**

  This message is for the use case when an implementation has detected that an Array Failed.

  May also be shown as 806f060d040effff or 0x806f060d040effff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0176

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
  2. Make sure that the SAS cable is connected correctly.
  3. Replace the SAS cable.
  4. Replace the RAID adapter.
  5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-040fffff : Array [ComputerSystemElementName] has failed. (Drive 15)**

  This message is for the use case when an implementation has detected that an Array Failed.

  May also be shown as 806f060d040fffff or 0x806f060d040fffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0410ffff : Array [ComputerSystemElementName] has failed. (Drive 16)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0410ffff or 0x806f060d0410ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0411ffff : Array [ComputerSystemElementName] has failed. (Drive 17)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0411ffff or 0x806f060d0411ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0412ffff : Array [ComputerSystemElementName] has failed. (Drive 18)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0412ffff or 0x806f060d0412ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.

2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0413ffff : Array [ComputerSystemElementName] has failed. (Drive 19)**

  This message is for the use case when an implementation has detected that an Array Failed.

  May also be shown as 806f060d0413ffff or 0x806f060d0413ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0176

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
  2. Make sure that the SAS cable is connected correctly.
  3. Replace the SAS cable.
  4. Replace the RAID adapter.
  5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0414ffff : Array [ComputerSystemElementName] has failed. (Drive 20)**

  This message is for the use case when an implementation has detected that an Array Failed.

  May also be shown as 806f060d0414ffff or 0x806f060d0414ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0415ffff : Array [ComputerSystemElementName] has failed. (Drive 21)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0415ffff or 0x806f060d0415ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0416ffff : Array [ComputerSystemElementName] has failed. (Drive 22)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0416ffff or 0x806f060d0416ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0417ffff : Array [ComputerSystemElementName] has failed. (Drive 23)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0417ffff or 0x806f060d0417ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.

2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0418ffff : Array [ComputerSystemElementName] has failed. (Drive 24)**

  This message is for the use case when an implementation has detected that an Array Failed.

  May also be shown as 806f060d0418ffff or 0x806f060d0418ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0176

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
  2. Make sure that the SAS cable is connected correctly.
  3. Replace the SAS cable.
  4. Replace the RAID adapter.
  5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0419ffff : Array [ComputerSystemElementName] has failed. (Drive 25)**

  This message is for the use case when an implementation has detected that an Array Failed.

  May also be shown as 806f060d0419ffff or 0x806f060d0419ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-041affff : Array [ComputerSystemElementName] has failed. (Drive 26)**

  This message is for the use case when an implementation has detected that an Array Failed.

  May also be shown as 806f060d041affff or 0x806f060d041affff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0176

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
  2. Make sure that the SAS cable is connected correctly.
  3. Replace the SAS cable.
  4. Replace the RAID adapter.
  5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-041bffff : Array [ComputerSystemElementName] has failed. (Drive 27)**

  This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d041bffff or 0x806f060d041bffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-041cffff : Array [ComputerSystemElementName] has failed. (Drive 28)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d041cffff or 0x806f060d041cffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.

2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-041dffff : Array [ComputerSystemElementName] has failed. (Drive 29)**

  This message is for the use case when an implementation has detected that an Array Failed.

  May also be shown as 806f060d041dffff or 0x806f060d041dffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0176

  **User Response**

  1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
  2. Make sure that the SAS cable is connected correctly.
  3. Replace the SAS cable.
  4. Replace the RAID adapter.
  5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-041effff : Array [ComputerSystemElementName] has failed. (Drive 30)**

  This message is for the use case when an implementation has detected that an Array Failed.

  May also be shown as 806f060d041effff or 0x806f060d041effff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-041fffff : Array [ComputerSystemElementName] has failed. (Drive 31)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d041fffff or 0x806f060d041fffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0176

**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f070c-2001ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

May also be shown as 806f070c2001ffff or 0x806f070c2001ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0126

**User Response**
Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-2002ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 2)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c2002ffff or 0x806f070c2002ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0126

  **User Response**
  Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-2003ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 3)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c2003ffff or 0x806f070c2003ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0126

  **User Response**
  Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-2004ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 4)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c2004ffff or 0x806f070c2004ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0126

  **User Response**

Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-2005ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c2005ffff or 0x806f070c2005ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0126

  **User Response**
  Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-2006ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 6)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c2006ffff or 0x806f070c2006ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

**CIM Information**
**Prefix:** PLAT **ID:** 0126

**User Response**
Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-2007ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 7)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c2007ffff or 0x806f070c2007ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0126

  **User Response**
  Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-2008ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 8)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c2008ffff or 0x806f070c2008ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0126

**User Response**
Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-2009ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 9)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c2009ffff or 0x806f070c2009ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0126

  **User Response**
  Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-200affff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 10)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c200affff or 0x806f070c200affff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

**Alert Category**
Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0126

**User Response**
Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-200bffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c200bffff or 0x806f070c200bffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0126

  **User Response**
  Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-200cffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c200cffff or 0x806f070c200cffff

  **Severity**
  Error

  **Serviceable**
  Yes

**Automatically notify support**
No

**Alert Category**
Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0126

**User Response**
Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-200dffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 13)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c200dffff or 0x806f070c200dffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0126

  **User Response**
  Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-200effff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 14)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c200effff or 0x806f070c200effff

  **Severity**
  Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0126

**User Response**
Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-200fffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c200fffff or 0x806f070c200fffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0126

  **User Response**
  Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-2010ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 16)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c2010ffff or 0x806f070c2010ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0126

**User Response**
Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-2011ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 17)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c2011ffff or 0x806f070c2011ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0126

  **User Response**
  Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-2012ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 18)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

May also be shown as 806f070c2012ffff or 0x806f070c2012ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0126

**User Response**
Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-2013ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 19)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c2013ffff or 0x806f070c2013ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0126

  **User Response**
  Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-2014ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 20)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

May also be shown as 806f070c2014ffff or 0x806f070c2014ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0126

**User Response**
Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-2015ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 21)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c2015ffff or 0x806f070c2015ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0126

  **User Response**
  Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-2016ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 22)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c2016ffff or 0x806f070c2016ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0126

  **User Response**
  Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-2017ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 23)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c2017ffff or 0x806f070c2017ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0126

  **User Response**

Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-2018ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 24)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c2018ffff or 0x806f070c2018ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0126

  **User Response**
  Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology.

- **806f070c-2581ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (All DIMMS)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

  May also be shown as 806f070c2581ffff or 0x806f070c2581ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

**CIM Information**
**Prefix:** PLAT **ID:** 0126

**User Response**
Make sure that DIMMs are installed in the correct sequence and have the same size, type, speed, and technology. One of the DIMMs :

- **806f070d-0400ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 0)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d0400ffff or 0x806f070d0400ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0178

  **User Response**
  No action; information only.

- **806f070d-0401ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 1)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d0401ffff or 0x806f070d0401ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0178

**User Response**
No action; information only.

- **806f070d-0402ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 2)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d0402ffff or 0x806f070d0402ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0178

**User Response**
No action; information only.

- **806f070d-0403ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 3)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d0403ffff or 0x806f070d0403ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**

System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0178

**User Response**
No action; information only.

- **806f070d-0404ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 4)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d0404ffff or 0x806f070d0404ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0178

  **User Response**
  No action; information only.

- **806f070d-0405ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 5)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d0405ffff or 0x806f070d0405ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0178

**User Response**
No action; information only.

- **806f070d-0406ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 6)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d0406ffff or 0x806f070d0406ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0178

  **User Response**
  No action; information only.

- **806f070d-0407ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 7)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d0407ffff or 0x806f070d0407ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**

No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0178

**User Response**
No action; information only.

- **806f070d-0408ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 8)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d0408ffff or 0x806f070d0408ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0178

  **User Response**
  No action; information only.

- **806f070d-0409ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 9)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d0409ffff or 0x806f070d0409ffff

  **Severity**
  Info

  **Serviceable**
  No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0178

**User Response**
No action; information only.

- **806f070d-040affff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 10)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d040affff or 0x806f070d040affff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0178

  **User Response**
  No action; information only.

- **806f070d-040bffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 11)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d040bffff or 0x806f070d040bffff

  **Severity**
  Info

  **Serviceable**

No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0178

**User Response**
No action; information only.

- **806f070d-040cffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 12)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d040cffff or 0x806f070d040cffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0178

  **User Response**
  No action; information only.

- **806f070d-040dffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 13)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d040dffff or 0x806f070d040dffff

  **Severity**
  Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0178

**User Response**
No action; information only.

- **806f070d-040effff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 14)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d040effff or 0x806f070d040effff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0178

  **User Response**
  No action; information only.

- **806f070d-040fffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 15)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d040fffff or 0x806f070d040fffff

  **Severity**

Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0178

**User Response**
No action; information only.

- **806f070d-0410ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 16)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d0410ffff or 0x806f070d0410ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0178

  **User Response**
  No action; information only.

- **806f070d-0411ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 17)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d0411ffff or 0x806f070d0411ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0178

**User Response**
No action; information only.

- **806f070d-0412ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 18)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d0412ffff or 0x806f070d0412ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0178

  **User Response**
  No action; information only.

- **806f070d-0413ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 19)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d0413ffff or 0x806f070d0413ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0178

**User Response**
No action; information only.

- **806f070d-0414ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 20)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d0414ffff or 0x806f070d0414ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0178

  **User Response**
  No action; information only.

- **806f070d-0415ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 21)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d0415ffff or 0x806f070d0415ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0178

**User Response**
No action; information only.

- **806f070d-0416ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 22)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d0416ffff or 0x806f070d0416ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0178

  **User Response**
  No action; information only.

- **806f070d-0417ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 23)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d0417ffff or 0x806f070d0417ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0178

**User Response**
No action; information only.

- **806f070d-0418ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 24)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d0418ffff or 0x806f070d0418ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0178

  **User Response**
  No action; information only.

- **806f070d-0419ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 25)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d0419ffff or 0x806f070d0419ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0178

**User Response**
No action; information only.

- **806f070d-041affff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 26)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d041affff or 0x806f070d041affff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0178

  **User Response**
  No action; information only.

- **806f070d-041bffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 27)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d041bffff or 0x806f070d041bffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0178

**User Response**
No action; information only.

- **806f070d-041cffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 28)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d041cffff or 0x806f070d041cffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0178

  **User Response**
  No action; information only.

- **806f070d-041dffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 29)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d041dffff or 0x806f070d041dffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0178

**User Response**
No action; information only.

- **806f070d-041effff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 30)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d041effff or 0x806f070d041effff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0178

  **User Response**
  No action; information only.

- **806f070d-041fffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 31)**

  This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

  May also be shown as 806f070d041fffff or 0x806f070d041fffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0178

**User Response**
No action; information only.

- **806f072b-2201ffff : A successful software or firmware change was detected on system [ComputerSystemElementName]. (Bkup Auto Update)**

  This message is for the use case when an implementation has detected a Successful Software or Firmware Change.

  May also be shown as 806f072b2201ffff or 0x806f072b2201ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0450

  **User Response**
  No action; information only. ROM Recovery :

- **806f0807-0301ffff : [ProcessorElementName] has been Disabled. (CPU 1)**

  This message is for the use case when an implementation has detected a Processor has been Disabled.

  May also be shown as 806f08070301ffff or 0x806f08070301ffff

  **Severity**

Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0061

**User Response**
No action; information only.

- **806f0807-0302ffff : [ProcessorElementName] has been Disabled. (CPU 2)**

  This message is for the use case when an implementation has detected a Processor has been Disabled.

  May also be shown as 806f08070302ffff or 0x806f08070302ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0061

  **User Response**
  No action; information only.

- **806f0807-2584ffff : [ProcessorElementName] has been Disabled. (All CPUs)**

  This message is for the use case when an implementation has detected a Processor has been Disabled.

  May also be shown as 806f08072584ffff or 0x806f08072584ffff

  **Severity**
  Info

  **Serviceable**

No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0061

**User Response**
No action; information only. One of The CPUs :

- **806f0813-2581ffff : A Uncorrectable Bus Error has occurred on system [ComputerSystemElementName]. (DIMMs)**

  This message is for the use case when an implementation has detected a Bus Uncorrectable Error.

  May also be shown as 806f08132581ffff or 0x806f08132581ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0240

  **User Response**

  1. Check the system-event log.
  2. Check the DIMM error LEDs.
  3. Remove the failing DIMM from the system board.
  4. Check for a server firmware update. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
  5. Make sure that the installed DIMMs are supported and configured correctly.
  6. (Trained technician only) Replace the system board.

- **806f0813-2582ffff : A Uncorrectable Bus Error has occurred on system [ComputerSystemElementName]. (PCIs)**

This message is for the use case when an implementation has detected a Bus Uncorrectable Error.

May also be shown as 806f08132582ffff or 0x806f08132582ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
Yes

**Alert Category**
Critical - Other

**SNMP Trap ID**
50

**CIM Information**
**Prefix:** PLAT **ID:** 0240

**User Response**

1. Check the system-event log.
2. Check the PCI LED.
3. Remove the adapter from the indicated PCI slot.
4. Check for a server firmware update. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
5. (Trained technician only) Replace the system board.

- **806f0813-2584ffff : A Uncorrectable Bus Error has occurred on system [ComputerSystemElementName]. (CPUs)**

  This message is for the use case when an implementation has detected a Bus Uncorrectable Error.

  May also be shown as 806f08132584ffff or 0x806f08132584ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  Yes

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**

**Prefix:** PLAT **ID:** 0240

**User Response**

1. Check the system-event log.
2. (Trained technician only) Remove the failing microprocessor from the system board (see Removing a microprocessor and heat sink).
3. Check for a server firmware update. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
4. Make sure that the two microprocessors are matching.
5. (Trained technician only) Replace the system board.

- **806f0823-2101ffff : Watchdog Timer interrupt occurred for [WatchdogElementName]. (IPMI Watchdog)**

  This message is for the use case when an implementation has detected a Watchdog Timer interrupt occurred.

  May also be shown as 806f08232101ffff or 0x806f08232101ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0376

  **User Response**
  No action; information only.

- **806f090c-2001ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 1)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c2001ffff or 0x806f090c2001ffff

  **Severity**
  Warning

  **Serviceable**

Yes

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**
22

**CIM Information**
**Prefix:** PLAT **ID:** 0142

**User Response**

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-2002ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 2)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c2002ffff or 0x806f090c2002ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** PLAT **ID:** 0142

  **User Response**

  1. Reseat the DIMM, and then restart the server.
  2. Replace DIMM n. (n = DIMM number)

- **806f090c-2003ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 3)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c2003ffff or 0x806f090c2003ffff

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**
22

**CIM Information**
**Prefix:** PLAT **ID:** 0142

**User Response**

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-2004ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 4)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c2004ffff or 0x806f090c2004ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** PLAT **ID:** 0142

  **User Response**

  1. Reseat the DIMM, and then restart the server.
  2. Replace DIMM n. (n = DIMM number)

- **806f090c-2005ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 5)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c2005ffff or 0x806f090c2005ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** PLAT **ID:** 0142

  **User Response**

  1. Reseat the DIMM, and then restart the server.
  2. Replace DIMM n. (n = DIMM number)

- **806f090c-2006ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 6)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c2006ffff or 0x806f090c2006ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** PLAT **ID:** 0142

  **User Response**

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-2007ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 7)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c2007ffff or 0x806f090c2007ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** PLAT **ID:** 0142

  **User Response**

  1. Reseat the DIMM, and then restart the server.
  2. Replace DIMM n. (n = DIMM number)

- **806f090c-2008ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 8)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c2008ffff or 0x806f090c2008ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**
  22

**CIM Information**
**Prefix:** PLAT **ID:** 0142

**User Response**

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-2009ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 9)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c2009ffff or 0x806f090c2009ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** PLAT **ID:** 0142

  **User Response**

  1. Reseat the DIMM, and then restart the server.
  2. Replace DIMM n. (n = DIMM number)

- **806f090c-200affff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 10)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c200affff or 0x806f090c200affff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

**Alert Category**
System - Other

**SNMP Trap ID**
22

**CIM Information**
**Prefix:** PLAT **ID:** 0142

**User Response**

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-200bffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 11)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c200bffff or 0x806f090c200bffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** PLAT **ID:** 0142

  **User Response**

  1. Reseat the DIMM, and then restart the server.
  2. Replace DIMM n. (n = DIMM number)

- **806f090c-200cffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 12)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c200cffff or 0x806f090c200cffff

  **Severity**
  Warning

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**
22

**CIM Information**
**Prefix:** PLAT **ID:** 0142

**User Response**

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-200dffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 13)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c200dffff or 0x806f090c200dffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** PLAT **ID:** 0142

  **User Response**

  1. Reseat the DIMM, and then restart the server.
  2. Replace DIMM n. (n = DIMM number)

- **806f090c-200effff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 14)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c200effff or 0x806f090c200effff

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**
22

**CIM Information**
**Prefix:** PLAT **ID:** 0142

**User Response**

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-200fffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 15)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c200fffff or 0x806f090c200fffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** PLAT **ID:** 0142

  **User Response**

  1. Reseat the DIMM, and then restart the server.
  2. Replace DIMM n. (n = DIMM number)

- **806f090c-2010ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 16)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c2010ffff or 0x806f090c2010ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** PLAT **ID:** 0142

  **User Response**

  1. Reseat the DIMM, and then restart the server.
  2. Replace DIMM n. (n = DIMM number)

- **806f090c-2011ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 17)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c2011ffff or 0x806f090c2011ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** PLAT **ID:** 0142

  **User Response**

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-2012ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 18)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c2012ffff or 0x806f090c2012ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** PLAT **ID:** 0142

  **User Response**

  1. Reseat the DIMM, and then restart the server.
  2. Replace DIMM n. (n = DIMM number)

- **806f090c-2013ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 19)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c2013ffff or 0x806f090c2013ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**
  22

**CIM Information**
**Prefix:** PLAT **ID:** 0142

**User Response**

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-2014ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 20)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c2014ffff or 0x806f090c2014ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** PLAT **ID:** 0142

  **User Response**

  1. Reseat the DIMM, and then restart the server.
  2. Replace DIMM n. (n = DIMM number)

- **806f090c-2015ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 21)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c2015ffff or 0x806f090c2015ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

**Alert Category**
System - Other

**SNMP Trap ID**
22

**CIM Information**
**Prefix:** PLAT **ID:** 0142

**User Response**

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-2016ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 22)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c2016ffff or 0x806f090c2016ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** PLAT **ID:** 0142

  **User Response**

  1. Reseat the DIMM, and then restart the server.
  2. Replace DIMM n. (n = DIMM number)

- **806f090c-2017ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 23)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c2017ffff or 0x806f090c2017ffff

  **Severity**
  Warning

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**
22

**CIM Information**
**Prefix:** PLAT **ID:** 0142

**User Response**

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-2018ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 24)**

  This message is for the use case when an implementation has detected Memory has been Throttled.

  May also be shown as 806f090c2018ffff or 0x806f090c2018ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**
  22

  **CIM Information**
  **Prefix:** PLAT **ID:** 0142

  **User Response**

  1. Reseat the DIMM, and then restart the server.
  2. Replace DIMM n. (n = DIMM number)

- **806f0a07-0301ffff : [ProcessorElementName] is operating in a Degraded State. (CPU 1)**

  This message is for the use case when an implementation has detected a Processor is running in the Degraded state.

  May also be shown as 806f0a070301ffff or 0x806f0a070301ffff

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Warning - CPU

**SNMP Trap ID**
42

**CIM Information**
**Prefix:** PLAT **ID:** 0038

**User Response**

1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Check the ambient temperature. You must be operating within the specifications.
3. Make sure that the heat sink for microprocessor n is installed correctly.
4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

- **806f0a07-0302ffff : [ProcessorElementName] is operating in a Degraded State. (CPU 2)**

  This message is for the use case when an implementation has detected a Processor is running in the Degraded state.

  May also be shown as 806f0a070302ffff or 0x806f0a070302ffff

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Warning - CPU

  **SNMP Trap ID**
  42

  **CIM Information**
  **Prefix:** PLAT **ID:** 0038

  **User Response**

1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Check the ambient temperature. You must be operating within the specifications.
3. Make sure that the heat sink for microprocessor n is installed correctly.
4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

- **806f0a0c-2001ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c2001ffff or 0x806f0a0c2001ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0146

  **User Response**

  1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
  2. Make sure that ambient temperature is within the specifications.
  3. If a fan has failed, complete the action for a fan failure.
  4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2002ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 2)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c2002ffff or 0x806f0a0c2002ffff

  **Severity**

Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0146

**User Response**

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2003ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 3)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c2003ffff or 0x806f0a0c2003ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0146

  **User Response**

  1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.

2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2004ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 4)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c2004ffff or 0x806f0a0c2004ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0146

  **User Response**

  1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
  2. Make sure that ambient temperature is within the specifications.
  3. If a fan has failed, complete the action for a fan failure.
  4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2005ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c2005ffff or 0x806f0a0c2005ffff

  **Severity**
  Error

  **Serviceable**

Yes

**Automatically notify support**
No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0146

**User Response**

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2006ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 6)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c2006ffff or 0x806f0a0c2006ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0146

  **User Response**

  1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
  2. Make sure that ambient temperature is within the specifications.
  3. If a fan has failed, complete the action for a fan failure.

4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2007ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 7)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c2007ffff or 0x806f0a0c2007ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0146

  **User Response**

  1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
  2. Make sure that ambient temperature is within the specifications.
  3. If a fan has failed, complete the action for a fan failure.
  4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2008ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 8)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c2008ffff or 0x806f0a0c2008ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0146

**User Response**

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2009ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 9)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c2009ffff or 0x806f0a0c2009ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0146

  **User Response**

  1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
  2. Make sure that ambient temperature is within the specifications.
  3. If a fan has failed, complete the action for a fan failure.
  4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-200affff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 10)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c200affff or 0x806f0a0c200affff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0146

  **User Response**

  1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
  2. Make sure that ambient temperature is within the specifications.
  3. If a fan has failed, complete the action for a fan failure.
  4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-200bffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c200bffff or 0x806f0a0c200bffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0146

**User Response**

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-200cffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c200cffff or 0x806f0a0c200cffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0146

  **User Response**

  1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
  2. Make sure that ambient temperature is within the specifications.
  3. If a fan has failed, complete the action for a fan failure.
  4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-200dffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 13)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

May also be shown as 806f0a0c200dffff or 0x806f0a0c200dffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0146

**User Response**

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-200effff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 14)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c200effff or 0x806f0a0c200effff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

**CIM Information**
**Prefix:** PLAT **ID:** 0146

**User Response**

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-200fffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c200fffff or 0x806f0a0c200fffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0146

  **User Response**

  1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
  2. Make sure that ambient temperature is within the specifications.
  3. If a fan has failed, complete the action for a fan failure.
  4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2010ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 16)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

May also be shown as 806f0a0c2010ffff or 0x806f0a0c2010ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0146

**User Response**

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2011ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 17)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c2011ffff or 0x806f0a0c2011ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0146

**User Response**

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2012ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 18)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c2012ffff or 0x806f0a0c2012ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0146

  **User Response**

  1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
  2. Make sure that ambient temperature is within the specifications.
  3. If a fan has failed, complete the action for a fan failure.
  4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2013ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 19)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c2013ffff or 0x806f0a0c2013ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0146

**User Response**

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2014ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 20)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c2014ffff or 0x806f0a0c2014ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0146

  **User Response**

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2015ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 21)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c2015ffff or 0x806f0a0c2015ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0146

  **User Response**

  1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
  2. Make sure that ambient temperature is within the specifications.
  3. If a fan has failed, complete the action for a fan failure.
  4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2016ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 22)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c2016ffff or 0x806f0a0c2016ffff

  **Severity**

Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0146

**User Response**

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2017ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 23)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c2017ffff or 0x806f0a0c2017ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0146

  **User Response**

  1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.

2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2018ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 24)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

  May also be shown as 806f0a0c2018ffff or 0x806f0a0c2018ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0146

  **User Response**

  1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
  2. Make sure that ambient temperature is within the specifications.
  3. If a fan has failed, complete the action for a fan failure.
  4. Replace DIMM n. (n = DIMM number)

- **806f0a13-0301ffff : A Fatal Bus Error has occurred on system [ComputerSystemElementName]. (CPU 1 PECI)**

  This message is for the use case when an implementation has detected a Bus Fatal Error.

  May also be shown as 806f0a130301ffff or 0x806f0a130301ffff

  **Severity**
  Error

  **Serviceable**
  Yes

**Automatically notify support**
No

**Alert Category**
Critical - Other

**SNMP Trap ID**
50

**CIM Information**
**Prefix:** PLAT **ID:** 0244

**User Response**

1. Reseat the microprocessor, and then restart the server.
2. Replace microprocessor n. (n = microprocessor number)

- **806f0a13-0302ffff : A Fatal Bus Error has occurred on system [ComputerSystemElementName]. (CPU 2 PECI)**

  This message is for the use case when an implementation has detected a Bus Fatal Error.

  May also be shown as 806f0a130302ffff or 0x806f0a130302ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0244

  **User Response**

  1. Reseat the microprocessor, and then restart the server.
  2. Replace microprocessor n. (n = microprocessor number)

- **81010002-0701ffff : Numeric sensor [NumericSensorElementName] going low (lower non-critical) has deasserted. (CMOS Battery)**

  This message is for the use case when an implementation has detected a Lower Non-critical sensor going low has deasserted.

  May also be shown as 810100020701ffff or 0x810100020701ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Warning - Voltage

**SNMP Trap ID**
13

**CIM Information**
**Prefix:** PLAT **ID:** 0477

**User Response**
No action; information only.

- **81010202-0701ffff : Numeric sensor [NumericSensorElementName] going low (lower critical) has deasserted. (CMOS Battery)**

  This message is for the use case when an implementation has detected a Lower Critical sensor going low has deasserted.

  May also be shown as 810102020701ffff or 0x810102020701ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Voltage

  **SNMP Trap ID**
  1

  **CIM Information**
  **Prefix:** PLAT **ID:** 0481

  **User Response**
  No action; information only. SysBrd 12V : SysBrd 3.3V : SysBrd 5V :

- **81010204-1d01ffff : Numeric sensor [NumericSensorElementName] going low (lower critical) has deasserted. (Fan 1 Tach)**

  This message is for the use case when an implementation has detected a Lower Critical sensor going low has deasserted.

  May also be shown as 810102041d01ffff or 0x810102041d01ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Fan Failure

**SNMP Trap ID**
11

**CIM Information**
**Prefix:** PLAT **ID:** 0481

**User Response**
No action; information only.

- **81010204-1d02ffff : Numeric sensor [NumericSensorElementName] going low (lower critical) has deasserted. (Fan 2 Tach)**

  This message is for the use case when an implementation has detected a Lower Critical sensor going low has deasserted.

  May also be shown as 810102041d02ffff or 0x810102041d02ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Fan Failure

  **SNMP Trap ID**
  11

  **CIM Information**
  **Prefix:** PLAT **ID:** 0481

  **User Response**
  No action; information only.

- **81010204-1d03ffff : Numeric sensor [NumericSensorElementName] going low (lower critical) has deasserted. (Fan 3 Tach)**

  This message is for the use case when an implementation has detected a Lower Critical sensor going low has deasserted.

  May also be shown as 810102041d03ffff or 0x810102041d03ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Fan Failure

**SNMP Trap ID**
11

**CIM Information**
**Prefix:** PLAT **ID:** 0481

**User Response**
No action; information only.

- **81010204-1d04ffff : Numeric sensor [NumericSensorElementName] going low (lower critical) has deasserted. (Fan 4 Tach)**

  This message is for the use case when an implementation has detected a Lower Critical sensor going low has deasserted.

  May also be shown as 810102041d04ffff or 0x810102041d04ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Fan Failure

  **SNMP Trap ID**
  11

  **CIM Information**
  **Prefix:** PLAT **ID:** 0481

  **User Response**
  No action; information only.

- **81010204-1d05ffff : Numeric sensor [NumericSensorElementName] going low (lower critical) has deasserted. (Fan 5 Tach)**

  This message is for the use case when an implementation has detected a Lower Critical sensor going low has deasserted.

  May also be shown as 810102041d05ffff or 0x810102041d05ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Fan Failure

**SNMP Trap ID**
11

**CIM Information**
**Prefix:** PLAT **ID:** 0481

**User Response**
No action; information only.

- **81010204-1d06ffff : Numeric sensor [NumericSensorElementName] going low (lower critical) has deasserted. (Fan 6 Tach)**

  This message is for the use case when an implementation has detected a Lower Critical sensor going low has deasserted.

  May also be shown as 810102041d06ffff or 0x810102041d06ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Fan Failure

  **SNMP Trap ID**
  11

  **CIM Information**
  **Prefix:** PLAT **ID:** 0481

  **User Response**
  No action; information only.

- **81010701-0701ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (Ambient Temp)**

  This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

  May also be shown as 810107010701ffff or 0x810107010701ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Warning - Temperature

**SNMP Trap ID**
12

**CIM Information**
**Prefix:** PLAT **ID:** 0491

**User Response**
No action; information only.

- **81010701-1401ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (CPU1 VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

  May also be shown as 810107011401ffff or 0x810107011401ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Temperature

  **SNMP Trap ID**
  12

  **CIM Information**
  **Prefix:** PLAT **ID:** 0491

  **User Response**
  No action; information only.

- **81010701-1402ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (CPU2 VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

  May also be shown as 810107011402ffff or 0x810107011402ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Warning - Temperature

**SNMP Trap ID**
12

**CIM Information**
**Prefix:** PLAT **ID:** 0491

**User Response**
No action; information only.

- **81010701-1403ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (DIMM AB VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

  May also be shown as 810107011403ffff or 0x810107011403ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Temperature

  **SNMP Trap ID**
  12

  **CIM Information**
  **Prefix:** PLAT **ID:** 0491

  **User Response**
  No action; information only.

- **81010701-1404ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (DIMM CD VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

  May also be shown as 810107011404ffff or 0x810107011404ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Warning - Temperature

**SNMP Trap ID**
12

**CIM Information**
**Prefix:** PLAT **ID:** 0491

**User Response**
No action; information only.

- **81010701-1405ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (DIMM EF VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

  May also be shown as 810107011405ffff or 0x810107011405ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Temperature

  **SNMP Trap ID**
  12

  **CIM Information**
  **Prefix:** PLAT **ID:** 0491

  **User Response**
  No action; information only.

- **81010701-1406ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (DIMM GH VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

  May also be shown as 810107011406ffff or 0x810107011406ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Warning - Temperature

**SNMP Trap ID**
12

**CIM Information**
**Prefix:** PLAT **ID:** 0491

**User Response**
No action; information only.

- **81010701-2d01ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (PCH Temp)**

  This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

  May also be shown as 810107012d01ffff or 0x810107012d01ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Temperature

  **SNMP Trap ID**
  12

  **CIM Information**
  **Prefix:** PLAT **ID:** 0491

  **User Response**
  No action; information only.

- **81010901-0701ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (Ambient Temp)**

  This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

  May also be shown as 810109010701ffff or 0x810109010701ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0495

**User Response**
No action; information only.

- **81010901-1401ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (CPU1 VR Temp)**

  This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

  May also be shown as 810109011401ffff or 0x810109011401ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0495

  **User Response**
  No action; information only.

- **81010901-1402ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (CPU2 VR Temp)**

  This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

  May also be shown as 810109011402ffff or 0x810109011402ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0495

**User Response**
No action; information only.

- **81010901-1403ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (DIMM AB VR Temp)**

  This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

  May also be shown as 810109011403ffff or 0x810109011403ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0495

  **User Response**
  No action; information only.

- **81010901-1404ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (DIMM CD VR Temp)**

  This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

  May also be shown as 810109011404ffff or 0x810109011404ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0495

**User Response**
No action; information only.

- **81010901-1405ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (DIMM EF VR Temp)**

  This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

  May also be shown as 810109011405ffff or 0x810109011405ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0495

  **User Response**
  No action; information only.

- **81010901-1406ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (DIMM GH VR Temp)**

  This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

  May also be shown as 810109011406ffff or 0x810109011406ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0495

**User Response**
No action; information only.

- **81010901-2d01ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (PCH Temp)**

  This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

  May also be shown as 810109012d01ffff or 0x810109012d01ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0495

  **User Response**
  No action; information only.

- **81010902-0701ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (SysBrd 12V)**

  This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

  May also be shown as 810109020701ffff or 0x810109020701ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Voltage

**SNMP Trap ID**
1

**CIM Information**
**Prefix:** PLAT **ID:** 0495

**User Response**
No action; information only. SysBrd 3.3V : SysBrd 5V :

- **81010b01-0701ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (Ambient Temp)**

  This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

  May also be shown as 81010b010701ffff or 0x81010b010701ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0499

  **User Response**
  No action; information only.

- **81010b01-1401ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (CPU1 VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

  May also be shown as 81010b011401ffff or 0x81010b011401ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0499

**User Response**
No action; information only.

- **81010b01-1402ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (CPU2 VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

  May also be shown as 81010b011402ffff or 0x81010b011402ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0499

  **User Response**
  No action; information only.

- **81010b01-1403ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (DIMM AB VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

  May also be shown as 81010b011403ffff or 0x81010b011403ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0499

**User Response**
No action; information only.

- **81010b01-1404ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (DIMM CD VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

  May also be shown as 81010b011404ffff or 0x81010b011404ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0499

  **User Response**
  No action; information only.

- **81010b01-1405ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (DIMM EF VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

  May also be shown as 81010b011405ffff or 0x81010b011405ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0499

**User Response**
No action; information only.

- **81010b01-1406ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (DIMM GH VR Temp)**

  This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

  May also be shown as 81010b011406ffff or 0x81010b011406ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0499

  **User Response**
  No action; information only.

- **81010b01-2d01ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (PCH Temp)**

  This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

  May also be shown as 81010b012d01ffff or 0x81010b012d01ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0499

**User Response**
No action; information only.

- **81030006-2101ffff : Sensor [SensorElementName] has asserted. (Sig Verify Fail)**

  This message is for the use case when an implementation has detected a Sensor has asserted.

  May also be shown as 810300062101ffff or 0x810300062101ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0508

  **User Response**
  No action; information only.

- **81030012-2301ffff : Sensor [SensorElementName] has asserted. (OS RealTime Mod)**

  This message is for the use case when an implementation has detected a Sensor has asserted.

  May also be shown as 810300122301ffff or 0x810300122301ffff

  **Severity**
  Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0508

**User Response**
No action; information only.

- **81030108-1301ffff : Sensor [SensorElementName] has deasserted. (PS Heavy Load)**

  This message is for the use case when an implementation has detected a Sensor has deasserted.

  May also be shown as 810301081301ffff or 0x810301081301ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0509

  **User Response**
  No action; information only.

- **8107010f-2201ffff : Sensor [SensorElementName] has deasserted the transition from normal to non-critical state. (GPT Status)**

  This message is for the use case when an implementation has detected that a Sensor has deasserted a transition to non-critical from normal.

  May also be shown as 8107010f2201ffff or 0x8107010f2201ffff

  **Severity**
  Info

  **Serviceable**

No

**Automatically notify support**
No

**Alert Category**
Warning - Other

**SNMP Trap ID**
60

**CIM Information**
**Prefix:** PLAT **ID:** 0521

**User Response**
No action; information only.

- **8107010f-2582ffff : Sensor [SensorElementName] has deasserted the transition from normal to non-critical state. (I/O Resources)**

  This message is for the use case when an implementation has detected that a Sensor has deasserted a transition to non-critical from normal.

  May also be shown as 8107010f2582ffff or 0x8107010f2582ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Other

  **SNMP Trap ID**
  60

  **CIM Information**
  **Prefix:** PLAT **ID:** 0521

  **User Response**
  No action; information only.

- **81070201-0301ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (CPU 1 OverTemp)**

  This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

  May also be shown as 810702010301ffff or 0x810702010301ffff

  **Severity**
  Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0523

**User Response**
No action; information only.

- **81070201-0302ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (CPU 2 OverTemp)**

  This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

  May also be shown as 810702010302ffff or 0x810702010302ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0523

  **User Response**
  No action; information only.

- **81070202-0701ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (SysBrd Vol Fault)**

  This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

  May also be shown as 810702020701ffff or 0x810702020701ffff

  **Severity**

Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Voltage

**SNMP Trap ID**
1

**CIM Information**
**Prefix:** PLAT **ID:** 0523

**User Response**
No action; information only.

- **81070202-1201ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (CPU2 BRD Fault)**

  This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

  May also be shown as 810702021201ffff or 0x810702021201ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Voltage

  **SNMP Trap ID**
  1

  **CIM Information**
  **Prefix:** PLAT **ID:** 0523

  **User Response**
  No action; information only.

- **81070202-1501ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (Power PDB Fault)**

  This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

  May also be shown as 810702021501ffff or 0x810702021501ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Voltage

**SNMP Trap ID**
1

**CIM Information**
**Prefix:** PLAT **ID:** 0523

**User Response**
No action; information only.

- **81070204-0a01ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (PS 1 Fan Fault)**

  This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

  May also be shown as 810702040a01ffff or 0x810702040a01ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Fan Failure

  **SNMP Trap ID**
  11

  **CIM Information**
  **Prefix:** PLAT **ID:** 0523

  **User Response**
  No action; information only.

- **81070204-0a02ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (PS 2 Fan Fault)**

  This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

  May also be shown as 810702040a02ffff or 0x810702040a02ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Fan Failure

**SNMP Trap ID**
11

**CIM Information**
**Prefix:** PLAT **ID:** 0523

**User Response**
No action; information only.

- **81070208-0a01ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (PS 1 Therm Fault)**

  This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

  May also be shown as 810702080a01ffff or 0x810702080a01ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Power

  **SNMP Trap ID**
  4

  **CIM Information**
  **Prefix:** PLAT **ID:** 0523

  **User Response**
  No action; information only.

- **81070208-0a02ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (PS 2 Therm Fault)**

  This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

  May also be shown as 810702080a02ffff or 0x810702080a02ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Power

**SNMP Trap ID**
4

**CIM Information**
**Prefix:** PLAT **ID:** 0523

**User Response**
No action; information only.

- **8107020f-2201ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (TXT ACM Module)**

  This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

  May also be shown as 8107020f2201ffff or 0x8107020f2201ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0523

  **User Response**
  No action; information only.

- **8107020f-2582ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (I/O Resources)**

  This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

  May also be shown as 8107020f2582ffff or 0x8107020f2582ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Other

**SNMP Trap ID**
50

**CIM Information**
**Prefix:** PLAT **ID:** 0523

**User Response**
No action; information only.

- **81070214-2201ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (TPM Lock)**

  This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

  May also be shown as 810702142201ffff or 0x810702142201ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0523

  **User Response**
  No action; information only.

- **81070219-0701ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (SysBrd Fault)**

  This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

  May also be shown as 810702190701ffff or 0x810702190701ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Other

**SNMP Trap ID**
50

**CIM Information**
**Prefix:** PLAT **ID:** 0523

**User Response**
No action; information only.

- **8107021b-0301ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (CPU 1 QPILinkErr)**

  This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

  May also be shown as 8107021b0301ffff or 0x8107021b0301ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0523

  **User Response**
  No action; information only.

- **8107021b-0302ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (CPU 2 QPILinkErr)**

  This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

  May also be shown as 8107021b0302ffff or 0x8107021b0302ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Other

**SNMP Trap ID**
50

**CIM Information**
**Prefix:** PLAT **ID:** 0523

**User Response**
No action; information only.

- **81070301-0301ffff : Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (CPU 1 OverTemp)**

  This message is for the use case when an implementation has detected that the Sensor transition to non-recoverable from less severe has deasserted.

  May also be shown as 810703010301ffff or 0x810703010301ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0525

  **User Response**
  No action; information only.

- **81070301-0302ffff : Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (CPU 2 OverTemp)**

  This message is for the use case when an implementation has detected that the Sensor transition to non-recoverable from less severe has deasserted.

  May also be shown as 810703010302ffff or 0x810703010302ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Temperature

**SNMP Trap ID**
0

**CIM Information**
**Prefix:** PLAT **ID:** 0525

**User Response**
No action; information only.

- **81070608-0a01ffff : Sensor [SensorElementName] has deasserted the transition to non-recoverable. (PS1 12V OC Fault)**

  This message is for the use case when an implementation has detected that the Sensor transition to non-recoverable has deasserted.

  May also be shown as 810706080a01ffff or 0x810706080a01ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Power

  **SNMP Trap ID**
  4

  **CIM Information**
  **Prefix:** PLAT **ID:** 0531

  **User Response**
  No action; information only. PS1 12V OV Fault : PS1 12V UV Fault : PS1 12Vaux Fault :

- **81070608-0a02ffff : Sensor [SensorElementName] has deasserted the transition to non-recoverable. (PS2 12V OC Fault)**

  This message is for the use case when an implementation has detected that the Sensor transition to non-recoverable has deasserted.

  May also be shown as 810706080a02ffff or 0x810706080a02ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Power

**SNMP Trap ID**
4

**CIM Information**
**Prefix:** PLAT **ID:** 0531

**User Response**
No action; information only. PS2 12V OV Fault : PS2 12V UV Fault : PS2 12Vaux Fault :

- **81070609-0a01ffff : Sensor [SensorElementName] has deasserted the transition to non-recoverable. (PDB_12V1)**

  This message is for the use case when an implementation has detected that the Sensor transition to non-recoverable has deasserted.

  May also be shown as 810706090a01ffff or 0x810706090a01ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Power

  **SNMP Trap ID**
  4

  **CIM Information**
  **Prefix:** PLAT **ID:** 0531

  **User Response**
  No action; information only. PDB_12V2 : PDB_12V3 : PDB_12V4_240VA : PDB_12V5_240VA : PDB_5V_OCP : PDB_5V_OVP : PDB_SHORT_CIR :

- **810b010a-1e01ffff : Redundancy Lost for [RedundancySetElementName] has deasserted. (Fan Zone 1)**

  This message is for the use case when Redundacy Lost has deasserted.

  May also be shown as 810b010a1e01ffff or 0x810b010a1e01ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Fan Failure

**SNMP Trap ID**
11

**CIM Information**
**Prefix:** PLAT **ID:** 0803

**User Response**
No action; information only.

- **810b010c-2581ffff : Redundancy Lost for [RedundancySetElementName] has deasserted. (Backup Memory)**

  This message is for the use case when Redundancy Lost has deasserted.

  May also be shown as 810b010c2581ffff or 0x810b010c2581ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0803

  **User Response**
  No action; information only.

- **810b0309-1301ffff : Non-redundant:Sufficient Resources from Redundancy Degraded or Fully Redundant for [RedundancySetElementName] has deasserted. (Power Resource)**

  This message is for the use case when a Redundancy Set has transitioned from Non-redundant:Sufficient Resources.

  May also be shown as 810b03091301ffff or 0x810b03091301ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Warning - Redundant Power Supply

**SNMP Trap ID**
10

**CIM Information**
**Prefix:** PLAT **ID:** 0807

**User Response**
No action; information only.

- **810b030c-2581ffff : Non-redundant:Sufficient Resources from Redundancy Degraded or Fully Redundant for [RedundancySetElementName] has deasserted. (Backup Memory)**

  This message is for the use case when a Redundancy Set has transitioned from Non-redundant:Sufficient Resources.

  May also be shown as 810b030c2581ffff or 0x810b030c2581ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0807

  **User Response**
  No action; information only.

- **810b0509-1301ffff : Non-redundant:Insufficient Resources for [RedundancySetElementName] has deasserted. (Power Resource)**

  This message is for the use case when a Redundancy Set has transitioned from Non-redundant:Insufficient Resources.

  May also be shown as 810b05091301ffff or 0x810b05091301ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Redundant Power Supply

**SNMP Trap ID**
9

**CIM Information**
**Prefix:** PLAT **ID:** 0811

**User Response**
No action; information only.

- **810b050a-1e01ffff : Non-redundant:Insufficient Resources for [RedundancySetElementName] has deasserted. (Fan Zone 1)**

  This message is for the use case when a Redundancy Set has transitioned from Non-redundant:Insufficient Resources.

  May also be shown as 810b050a1e01ffff or 0x810b050a1e01ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Fan Failure

  **SNMP Trap ID**
  11

  **CIM Information**
  **Prefix:** PLAT **ID:** 0811

  **User Response**
  No action; information only.

- **810b050c-2581ffff : Non-redundant:Insufficient Resources for [RedundancySetElementName] has deasserted. (Backup Memory)**

  This message is for the use case when a Redundancy Set has transitioned from Non-redundant:Insufficient Resources.

  May also be shown as 810b050c2581ffff or 0x810b050c2581ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Memory

**SNMP Trap ID**
41

**CIM Information**
**Prefix:** PLAT **ID:** 0811

**User Response**
No action; information only.

- **816f0005-1701ffff : The Chassis [PhysicalPackageElementName] was closed. (Chassis Error)**

  This message is for the use case when a Chassis has been closed.

  May also be shown as 816f00051701ffff or 0x816f00051701ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Other

  **SNMP Trap ID**
  60

  **CIM Information**
  **Prefix:** PLAT **ID:** 0005

  **User Response**
  No action; information only.

- **816f0007-0301ffff : [ProcessorElementName] has Recovered from IERR. (CPU 1)**

  This message is for the use case when an implementation has detected a Processor Recovered - IERR Condition.

  May also be shown as 816f00070301ffff or 0x816f00070301ffff

  **Severity**
  Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - CPU

**SNMP Trap ID**
40

**CIM Information**
**Prefix:** PLAT **ID:** 0043

**User Response**
No action; information only.

- **816f0007-0302ffff : [ProcessorElementName] has Recovered from IERR. (CPU 2)**

  This message is for the use case when an implementation has detected a Processor Recovered - IERR Condition.

  May also be shown as 816f00070302ffff or 0x816f00070302ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - CPU

  **SNMP Trap ID**
  40

  **CIM Information**
  **Prefix:** PLAT **ID:** 0043

  **User Response**
  No action; information only.

- **816f0008-0a01ffff : [PowerSupplyElementName] has been removed from container [PhysicalPackageElementName]. (Power Supply 1)**

  This message is for the use case when an implementation has detected a Power Supply has been removed.

  May also be shown as 816f00080a01ffff or 0x816f00080a01ffff

  **Severity**
  Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0085

**User Response**
No action; information only.

- **816f0008-0a02ffff : [PowerSupplyElementName] has been removed from container [PhysicalPackageElementName]. (Power Supply 2)**

  This message is for the use case when an implementation has detected a Power Supply has been removed.

  May also be shown as 816f00080a02ffff or 0x816f00080a02ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0085

  **User Response**
  No action; information only.

- **816f0009-1301ffff : [PowerSupplyElementName] has been turned on. (Host Power)**

  This message is for the use case when an implementation has detected a Power Unit that has been Enabled.

  May also be shown as 816f00091301ffff or 0x816f00091301ffff

  **Severity**
  Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Power On

**SNMP Trap ID**
24

**CIM Information**
**Prefix:** PLAT **ID:** 0107

**User Response**
No action; information only.

- **816f000d-0400ffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 0)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d0400ffff or 0x816f000d0400ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0163

  **User Response**

  1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
  2. Replace the hard disk drive.
  3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
  4. Check the SAS cable.

- **816f000d-0401ffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 1)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d0401ffff or 0x816f000d0401ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0163

**User Response**

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. Replace the hard disk drive.
3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
4. Check the SAS cable.

- **816f000d-0402ffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 2)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d0402ffff or 0x816f000d0402ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0163

  **User Response**

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. Replace the hard disk drive.
3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
4. Check the SAS cable.

- **816f000d-0403ffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 3)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d0403ffff or 0x816f000d0403ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0163

  **User Response**

  1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
  2. Replace the hard disk drive.
  3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
  4. Check the SAS cable.

- **816f000d-0404ffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 4)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d0404ffff or 0x816f000d0404ffff

  **Severity**
  Error

  **Serviceable**
  Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0163

**User Response**

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. Replace the hard disk drive.
3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
4. Check the SAS cable.

- **816f000d-0405ffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 5)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d0405ffff or 0x816f000d0405ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0163

  **User Response**

  1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
  2. Replace the hard disk drive.
  3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
  4. Check the SAS cable.

- **816f000d-0406ffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 6)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d0406ffff or 0x816f000d0406ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0163

  **User Response**

  1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
  2. Replace the hard disk drive.
  3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
  4. Check the SAS cable.

- **816f000d-0407ffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 7)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d0407ffff or 0x816f000d0407ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**

**Prefix:** PLAT **ID:** 0163

**User Response**

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. Replace the hard disk drive.
3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
4. Check the SAS cable.

- **816f000d-0408ffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 8)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d0408ffff or 0x816f000d0408ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0163

  **User Response**

  1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
  2. Replace the hard disk drive.
  3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
  4. Check the SAS cable.

- **816f000d-0409ffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 9)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d0409ffff or 0x816f000d0409ffff

  **Severity**

Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0163

**User Response**

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. Replace the hard disk drive.
3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
4. Check the SAS cable.

- **816f000d-040affff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 10)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d040affff or 0x816f000d040affff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0163

  **User Response**

  1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
  2. Replace the hard disk drive.
  3. Make sure that the disk firmware and RAID controller firmware are at the latest level.

4. Check the SAS cable.

- **816f000d-040bffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 11)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d040bffff or 0x816f000d040bffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0163

  **User Response**

  1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
  2. Replace the hard disk drive.
  3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
  4. Check the SAS cable.

- **816f000d-040cffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 12)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d040cffff or 0x816f000d040cffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0163

**User Response**

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. Replace the hard disk drive.
3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
4. Check the SAS cable.

- **816f000d-040dffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 13)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d040dffff or 0x816f000d040dffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0163

  **User Response**

  1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
  2. Replace the hard disk drive.
  3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
  4. Check the SAS cable.

- **816f000d-040effff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 14)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d040effff or 0x816f000d040effff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0163

**User Response**

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. Replace the hard disk drive.
3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
4. Check the SAS cable.

- **816f000d-040fffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 15)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d040fffff or 0x816f000d040fffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0163

  **User Response**

  1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.

2. Replace the hard disk drive.
3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
4. Check the SAS cable.

- **816f000d-0410ffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 16)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d0410ffff or 0x816f000d0410ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0163

  **User Response**

  1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
  2. Replace the hard disk drive.
  3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
  4. Check the SAS cable.

- **816f000d-0411ffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 17)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d0411ffff or 0x816f000d0411ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0163

**User Response**

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. Replace the hard disk drive.
3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
4. Check the SAS cable.

- **816f000d-0412ffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 18)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d0412ffff or 0x816f000d0412ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0163

  **User Response**

  1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
  2. Replace the hard disk drive.
  3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
  4. Check the SAS cable.

- **816f000d-0413ffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 19)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d0413ffff or 0x816f000d0413ffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0163

**User Response**

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. Replace the hard disk drive.
3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
4. Check the SAS cable.

- **816f000d-0414ffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 20)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d0414ffff or 0x816f000d0414ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0163

  **User Response**

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. Replace the hard disk drive.
3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
4. Check the SAS cable.

- **816f000d-0415ffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 21)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d0415ffff or 0x816f000d0415ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0163

  **User Response**

  1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
  2. Replace the hard disk drive.
  3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
  4. Check the SAS cable.

- **816f000d-0416ffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 22)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d0416ffff or 0x816f000d0416ffff

  **Severity**
  Error

  **Serviceable**

Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0163

**User Response**

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. Replace the hard disk drive.
3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
4. Check the SAS cable.

- **816f000d-0417ffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 23)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d0417ffff or 0x816f000d0417ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0163

  **User Response**

  1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
  2. Replace the hard disk drive.
  3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
  4. Check the SAS cable.

- **816f000d-0418ffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 24)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d0418ffff or 0x816f000d0418ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0163

  **User Response**

  1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
  2. Replace the hard disk drive.
  3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
  4. Check the SAS cable.

- **816f000d-0419ffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 25)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d0419ffff or 0x816f000d0419ffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

**CIM Information**
**Prefix:** PLAT **ID:** 0163

**User Response**

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. Replace the hard disk drive.
3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
4. Check the SAS cable.

- **816f000d-041affff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 26)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d041affff or 0x816f000d041affff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0163

  **User Response**

  1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
  2. Replace the hard disk drive.
  3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
  4. Check the SAS cable.

- **816f000d-041bffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 27)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d041bffff or 0x816f000d041bffff

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0163

**User Response**

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. Replace the hard disk drive.
3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
4. Check the SAS cable.

- **816f000d-041cffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 28)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d041cffff or 0x816f000d041cffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0163

  **User Response**

  1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
  2. Replace the hard disk drive.

3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
4. Check the SAS cable.

- **816f000d-041dffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 29)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d041dffff or 0x816f000d041dffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0163

  **User Response**

  1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
  2. Replace the hard disk drive.
  3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
  4. Check the SAS cable.

- **816f000d-041effff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 30)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d041effff or 0x816f000d041effff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**

Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0163

**User Response**

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. Replace the hard disk drive.
3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
4. Check the SAS cable.

- **816f000d-041fffff : The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 31)**

  This message is for the use case when an implementation has detected a Drive has been Removed.

  May also be shown as 816f000d041fffff or 0x816f000d041fffff

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0163

  **User Response**

  1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
  2. Replace the hard disk drive.
  3. Make sure that the disk firmware and RAID controller firmware are at the latest level.
  4. Check the SAS cable.

- **816f000f-2201ffff : The System [ComputerSystemElementName] has detected a POST Error deassertion. (ABR Status)**

  This message is for the use case when an implementation has detected that Post Error has deasserted.

May also be shown as 816f000f2201ffff or 0x816f000f2201ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Other

**SNMP Trap ID**
50

**CIM Information**
**Prefix:** PLAT **ID:** 0185

**User Response**
No action; information only. Firmware Error : Sys Boot Status :

- **816f0013-1701ffff : System [ComputerSystemElementName] has recovered from a diagnostic interrupt. (NMI State)**

  This message is for the use case when an implementation has detected a recovery from a Front Panel NMI / Diagnostic Interrupt

  May also be shown as 816f00131701ffff or 0x816f00131701ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0223

  **User Response**
  No action; information only.

- **816f0021-2201ffff : Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (No Op ROM Space)**

This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

May also be shown as 816f00212201ffff or 0x816f00212201ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Other

**SNMP Trap ID**
50

**CIM Information**
**Prefix:** PLAT **ID:** 0331

**User Response**
No action; information only.

- **816f0021-2582ffff : Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (All PCI Error)**

  This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

  May also be shown as 816f00212582ffff or 0x816f00212582ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0331

  **User Response**
  No action; information only. One of PCI Error :

- **816f0021-3001ffff : Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (PCI 1)**

  This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

  May also be shown as 816f00213001ffff or 0x816f00213001ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0331

  **User Response**
  No action; information only.

- **816f0021-3002ffff : Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (PCI 2)**

  This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

  May also be shown as 816f00213002ffff or 0x816f00213002ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0331

  **User Response**
  No action; information only.

- **816f0021-3003ffff : Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (PCI 3)**

  This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

  May also be shown as 816f00213003ffff or 0x816f00213003ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0331

  **User Response**
  No action; information only.

- **816f0021-3004ffff : Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (PCI 4)**

  This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

  May also be shown as 816f00213004ffff or 0x816f00213004ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0331

  **User Response**
  No action; information only.

- **816f0021-3005ffff : Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (PCI 5)**

  This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

  May also be shown as 816f00213005ffff or 0x816f00213005ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0331

  **User Response**
  No action; information only.

- **816f0021-3006ffff : Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (PCI 6)**

  This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

  May also be shown as 816f00213006ffff or 0x816f00213006ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0331

  **User Response**
  No action; information only.

- **816f0021-3007ffff : Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (PCI 7)**

  This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

  May also be shown as 816f00213007ffff or 0x816f00213007ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0331

  **User Response**
  No action; information only.

- **816f0021-3008ffff : Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (PCI 8)**

  This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

  May also be shown as 816f00213008ffff or 0x816f00213008ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0331

  **User Response**
  No action; information only.

- **816f0028-2101ffff : Sensor [SensorElementName] has returned to normal on management system [ComputerSystemElementName]. (TPM Cmd Failures)**

  This message is for the use case when an implementation has detected a Sensor returned from degraded/unavailable/failure.

  May also be shown as 816f00282101ffff or 0x816f00282101ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Other

  **SNMP Trap ID**
  60

  **CIM Information**
  **Prefix:** PLAT **ID:** 0399

  **User Response**
  No action; information only.

- **816f0107-0301ffff : An Over-Temperature Condition has been removed on [ProcessorElementName]. (CPU 1)**

  This message is for the use case when an implementation has detected a Over-Temperature Condition has been Removed for Processor.

  May also be shown as 816f01070301ffff or 0x816f01070301ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0037

  **User Response**
  No action; information only.

- **816f0107-0302ffff : An Over-Temperature Condition has been removed on [ProcessorElementName]. (CPU 2)**

  This message is for the use case when an implementation has detected a Over-Temperature Condition has been Removed for Processor.

  May also be shown as 816f01070302ffff or 0x816f01070302ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0037

  **User Response**
  No action; information only.

- **816f0108-0a01ffff : [PowerSupplyElementName] has returned to OK status. (Power Supply 1)**

  This message is for the use case when an implementation has detected a Power Supply return to normal operational status.

  May also be shown as 816f01080a01ffff or 0x816f01080a01ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Power

  **SNMP Trap ID**
  4

  **CIM Information**
  **Prefix:** PLAT **ID:** 0087

  **User Response**
  No action; information only.

- **816f0108-0a02ffff : [PowerSupplyElementName] has returned to OK status. (Power Supply 2)**

  This message is for the use case when an implementation has detected a Power Supply return to normal operational status.

  May also be shown as 816f01080a02ffff or 0x816f01080a02ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Power

  **SNMP Trap ID**
  4

  **CIM Information**
  **Prefix:** PLAT **ID:** 0087

  **User Response**
  No action; information only.

- **816f010c-2001ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c2001ffff or 0x816f010c2001ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-2002ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 2)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c2002ffff or 0x816f010c2002ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-2003ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 3)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c2003ffff or 0x816f010c2003ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-2004ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 4)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c2004ffff or 0x816f010c2004ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-2005ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c2005ffff or 0x816f010c2005ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-2006ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 6)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c2006ffff or 0x816f010c2006ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-2007ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 7)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c2007ffff or 0x816f010c2007ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-2008ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 8)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c2008ffff or 0x816f010c2008ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-2009ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 9)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c2009ffff or 0x816f010c2009ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-200affff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 10)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c200affff or 0x816f010c200affff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-200bffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c200bffff or 0x816f010c200bffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-200cffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c200cffff or 0x816f010c200cffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-200dffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 13)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c200dffff or 0x816f010c200dffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-200effff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 14)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c200effff or 0x816f010c200effff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-200fffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c200fffff or 0x816f010c200fffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-2010ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 16)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c2010ffff or 0x816f010c2010ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-2011ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 17)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c2011ffff or 0x816f010c2011ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-2012ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 18)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c2012ffff or 0x816f010c2012ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-2013ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 19)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c2013ffff or 0x816f010c2013ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-2014ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 20)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c2014ffff or 0x816f010c2014ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-2015ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 21)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c2015ffff or 0x816f010c2015ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-2016ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 22)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c2016ffff or 0x816f010c2016ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-2017ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 23)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c2017ffff or 0x816f010c2017ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-2018ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 24)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c2018ffff or 0x816f010c2018ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only.

- **816f010c-2581ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (All DIMMS)**

  This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

  May also be shown as 816f010c2581ffff or 0x816f010c2581ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0139

  **User Response**
  No action; information only. One of the DIMMs :

- **816f010d-0400ffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 0)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d0400ffff or 0x816f010d0400ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0167

  **User Response**
  No action; information only.

- **816f010d-0401ffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 1)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d0401ffff or 0x816f010d0401ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0167

  **User Response**
  No action; information only.

- **816f010d-0402ffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 2)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d0402ffff or 0x816f010d0402ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0167

**User Response**
No action; information only.

- **816f010d-0403ffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 3)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d0403ffff or 0x816f010d0403ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0167

  **User Response**
  No action; information only.

- **816f010d-0404ffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 4)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d0404ffff or 0x816f010d0404ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0167

**User Response**
No action; information only.

- **816f010d-0405ffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 5)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d0405ffff or 0x816f010d0405ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0167

  **User Response**
  No action; information only.

- **816f010d-0406ffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 6)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d0406ffff or 0x816f010d0406ffff

  **Severity**

Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0167

**User Response**
No action; information only.

- **816f010d-0407ffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 7)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d0407ffff or 0x816f010d0407ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0167

  **User Response**
  No action; information only.

- **816f010d-0408ffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 8)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d0408ffff or 0x816f010d0408ffff

  **Severity**
  Info

  **Serviceable**

No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0167

**User Response**
No action; information only.

- **816f010d-0409ffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 9)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d0409ffff or 0x816f010d0409ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0167

  **User Response**
  No action; information only.

- **816f010d-040affff : The Drive [StorageVolumeElementName] has been enabled. (Drive 10)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d040affff or 0x816f010d040affff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**

No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0167

**User Response**
No action; information only.

- **816f010d-040bffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 11)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d040bffff or 0x816f010d040bffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0167

  **User Response**
  No action; information only.

- **816f010d-040cffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 12)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d040cffff or 0x816f010d040cffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**

Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0167

**User Response**
No action; information only.

- **816f010d-040dffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 13)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d040dffff or 0x816f010d040dffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0167

  **User Response**
  No action; information only.

- **816f010d-040effff : The Drive [StorageVolumeElementName] has been enabled. (Drive 14)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d040effff or 0x816f010d040effff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**

5

**CIM Information**
**Prefix:** PLAT **ID:** 0167

**User Response**
No action; information only.

- **816f010d-040fffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 15)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d040fffff or 0x816f010d040fffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0167

  **User Response**
  No action; information only.

- **816f010d-0410ffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 16)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d0410ffff or 0x816f010d0410ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**

**Prefix:** PLAT **ID:** 0167

**User Response**
No action; information only.

- **816f010d-0411ffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 17)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d0411ffff or 0x816f010d0411ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0167

  **User Response**
  No action; information only.

- **816f010d-0412ffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 18)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d0412ffff or 0x816f010d0412ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0167

  **User Response**

No action; information only.

- **816f010d-0413ffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 19)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d0413ffff or 0x816f010d0413ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0167

  **User Response**
  No action; information only.

- **816f010d-0414ffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 20)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d0414ffff or 0x816f010d0414ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0167

  **User Response**
  No action; information only.

- **816f010d-0415ffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 21)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d0415ffff or 0x816f010d0415ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0167

  **User Response**
  No action; information only.

- **816f010d-0416ffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 22)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d0416ffff or 0x816f010d0416ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0167

  **User Response**
  No action; information only.

- **816f010d-0417ffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 23)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d0417ffff or 0x816f010d0417ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0167

**User Response**
No action; information only.

- **816f010d-0418ffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 24)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d0418ffff or 0x816f010d0418ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0167

  **User Response**
  No action; information only.

- **816f010d-0419ffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 25)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d0419ffff or 0x816f010d0419ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0167

**User Response**
No action; information only.

- **816f010d-041affff : The Drive [StorageVolumeElementName] has been enabled. (Drive 26)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d041affff or 0x816f010d041affff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0167

  **User Response**
  No action; information only.

- **816f010d-041bffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 27)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d041bffff or 0x816f010d041bffff

  **Severity**

Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0167

**User Response**
No action; information only.

- **816f010d-041cffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 28)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d041cffff or 0x816f010d041cffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0167

  **User Response**
  No action; information only.

- **816f010d-041dffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 29)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d041dffff or 0x816f010d041dffff

  **Severity**
  Info

  **Serviceable**

No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0167

**User Response**
No action; information only.

- **816f010d-041effff : The Drive [StorageVolumeElementName] has been enabled. (Drive 30)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d041effff or 0x816f010d041effff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0167

  **User Response**
  No action; information only.

- **816f010d-041fffff : The Drive [StorageVolumeElementName] has been enabled. (Drive 31)**

  This message is for the use case when an implementation has detected a Drive was Enabled.

  May also be shown as 816f010d041fffff or 0x816f010d041fffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**

No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0167

**User Response**
No action; information only.

- **816f010f-2201ffff : The System [ComputerSystemElementName] has recovered from a firmware hang. (Firmware Error)**

  This message is for the use case when an implementation has recovered from a System Firmware Hang.

  May also be shown as 816f010f2201ffff or 0x816f010f2201ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0187

  **User Response**
  No action; information only.

- **816f0113-0301ffff : System [ComputerSystemElementName] has recovered from a bus timeout. (CPU 1 PECI)**

  This message is for the use case when an implemenation has detected that a system has recovered from a Bus Timeout.

  May also be shown as 816f01130301ffff or 0x816f01130301ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**

No

**Alert Category**
Critical - Other

**SNMP Trap ID**
50

**CIM Information**
**Prefix:** PLAT **ID:** 0225

**User Response**

1. (Trained technician only) Replace microprocessor n (see Removing a microprocessor and heat sink and Replacing a microprocessor and heat sink).
2. If the problem persists and there is no other CPU with the same error indication, replace the system board.
3. (Trained technician only) Replace the system board (see Removing the system board and Replacing the system board). (n = microprocessor number)

- **816f0113-0302ffff : System [ComputerSystemElementName] has recovered from a bus timeout. (CPU 2 PECI)**

  This message is for the use case when an implemenation has detected that a system has recovered from a Bus Timeout.

  May also be shown as 816f01130302ffff or 0x816f01130302ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0225

  **User Response**

  1. (Trained technician only) Replace microprocessor n (see Removing a microprocessor and heat sink and Replacing a microprocessor and heat sink).
  2. If the problem persists and there is no other CPU with the same error indication, replace the system board.
  3. (Trained technician only) Replace the system board (see Removing the system board and Replacing the system board). (n = microprocessor number)

- **816f0207-0301ffff : [ProcessorElementName] has Recovered from FRB1/BIST condition. (CPU 1)**

  This message is for the use case when an implementation has detected a Processor Recovered - FRB1/BIST condition.

  May also be shown as 816f02070301ffff or 0x816f02070301ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - CPU

  **SNMP Trap ID**
  40

  **CIM Information**
  **Prefix:** PLAT **ID:** 0045

  **User Response**
  No action; information only.

- **816f0207-0302ffff : [ProcessorElementName] has Recovered from FRB1/BIST condition. (CPU 2)**

  This message is for the use case when an implementation has detected a Processor Recovered - FRB1/BIST condition.

  May also be shown as 816f02070302ffff or 0x816f02070302ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - CPU

  **SNMP Trap ID**
  40

  **CIM Information**
  **Prefix:** PLAT **ID:** 0045

  **User Response**
  No action; information only.

- **816f0207-2584ffff : [ProcessorElementName] has Recovered from FRB1/BIST condition. (All CPUs)**

  This message is for the use case when an implementation has detected a Processor Recovered - FRB1/BIST condition.

  May also be shown as 816f02072584ffff or 0x816f02072584ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - CPU

  **SNMP Trap ID**
  40

  **CIM Information**
  **Prefix:** PLAT **ID:** 0045

  **User Response**
  No action; information only. One of The CPUs :

- **816f020d-0400ffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 0)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d0400ffff or 0x816f020d0400ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-0401ffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 1)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d0401ffff or 0x816f020d0401ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-0402ffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 2)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d0402ffff or 0x816f020d0402ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-0403ffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 3)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d0403ffff or 0x816f020d0403ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-0404ffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 4)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d0404ffff or 0x816f020d0404ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-0405ffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 5)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d0405ffff or 0x816f020d0405ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-0406ffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 6)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d0406ffff or 0x816f020d0406ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-0407ffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 7)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d0407ffff or 0x816f020d0407ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-0408ffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 8)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d0408ffff or 0x816f020d0408ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-0409ffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 9)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d0409ffff or 0x816f020d0409ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-040affff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 10)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d040affff or 0x816f020d040affff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-040bffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 11)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d040bffff or 0x816f020d040bffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-040cffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 12)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d040cffff or 0x816f020d040cffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-040dffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 13)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d040dffff or 0x816f020d040dffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-040effff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 14)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d040effff or 0x816f020d040effff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-040fffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 15)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d040fffff or 0x816f020d040fffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-0410ffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 16)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d0410ffff or 0x816f020d0410ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-0411ffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 17)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d0411ffff or 0x816f020d0411ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-0412ffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 18)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d0412ffff or 0x816f020d0412ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-0413ffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 19)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d0413ffff or 0x816f020d0413ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-0414ffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 20)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d0414ffff or 0x816f020d0414ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-0415ffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 21)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d0415ffff or 0x816f020d0415ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-0416ffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 22)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d0416ffff or 0x816f020d0416ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-0417ffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 23)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d0417ffff or 0x816f020d0417ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-0418ffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 24)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d0418ffff or 0x816f020d0418ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-0419ffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 25)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d0419ffff or 0x816f020d0419ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-041affff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 26)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d041affff or 0x816f020d041affff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-041bffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 27)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d041bffff or 0x816f020d041bffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-041cffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 28)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d041cffff or 0x816f020d041cffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-041dffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 29)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d041dffff or 0x816f020d041dffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-041effff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 30)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d041effff or 0x816f020d041effff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f020d-041fffff : Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 31)**

  This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

  May also be shown as 816f020d041fffff or 0x816f020d041fffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Predicted Failure

  **SNMP Trap ID**
  27

  **CIM Information**
  **Prefix:** PLAT **ID:** 0169

  **User Response**
  No action; information only.

- **816f0308-0a01ffff : [PowerSupplyElementName] has returned to a Normal Input State. (Power Supply 1)**

  This message is for the use case when an implementation has detected a Power Supply that has input that has returned to normal.

  May also be shown as 816f03080a01ffff or 0x816f03080a01ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0099

  **User Response**
  No action; information only.

- **816f0308-0a02ffff : [PowerSupplyElementName] has returned to a Normal Input State. (Power Supply 2)**

  This message is for the use case when an implementation has detected a Power Supply that has input that has returned to normal.

  May also be shown as 816f03080a02ffff or 0x816f03080a02ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0099

  **User Response**
  No action; information only.

- **816f030c-2001ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 1)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c2001ffff or 0x816f030c2001ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-2002ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 2)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c2002ffff or 0x816f030c2002ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-2003ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 3)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c2003ffff or 0x816f030c2003ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-2004ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 4)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c2004ffff or 0x816f030c2004ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-2005ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 5)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c2005ffff or 0x816f030c2005ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-2006ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 6)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c2006ffff or 0x816f030c2006ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-2007ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 7)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c2007ffff or 0x816f030c2007ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-2008ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 8)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c2008ffff or 0x816f030c2008ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-2009ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 9)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c2009ffff or 0x816f030c2009ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-200affff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 10)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c200affff or 0x816f030c200affff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-200bffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 11)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c200bffff or 0x816f030c200bffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-200cffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 12)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c200cffff or 0x816f030c200cffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-200dffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 13)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c200dffff or 0x816f030c200dffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-200effff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 14)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c200effff or 0x816f030c200effff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-200fffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 15)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c200fffff or 0x816f030c200fffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-2010ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 16)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c2010ffff or 0x816f030c2010ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-2011ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 17)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c2011ffff or 0x816f030c2011ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-2012ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 18)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c2012ffff or 0x816f030c2012ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-2013ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 19)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c2013ffff or 0x816f030c2013ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-2014ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 20)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c2014ffff or 0x816f030c2014ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-2015ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 21)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c2015ffff or 0x816f030c2015ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-2016ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 22)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c2016ffff or 0x816f030c2016ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-2017ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 23)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c2017ffff or 0x816f030c2017ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f030c-2018ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 24)**

  This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

  May also be shown as 816f030c2018ffff or 0x816f030c2018ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0137

  **User Response**
  No action; information only.

- **816f0313-1701ffff : System [ComputerSystemElementName] has recovered from an NMI. (NMI State)**

  This message is for the use case when an implementation has detected a Software NMI has been Recovered from.

  May also be shown as 816f03131701ffff or 0x816f03131701ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0230

  **User Response**
  No action; information only.

- **816f040c-2001ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 1)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c2001ffff or 0x816f040c2001ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-2002ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 2)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c2002ffff or 0x816f040c2002ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-2003ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 3)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c2003ffff or 0x816f040c2003ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-2004ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 4)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c2004ffff or 0x816f040c2004ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-2005ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 5)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c2005ffff or 0x816f040c2005ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-2006ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 6)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c2006ffff or 0x816f040c2006ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-2007ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 7)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c2007ffff or 0x816f040c2007ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-2008ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 8)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c2008ffff or 0x816f040c2008ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-2009ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 9)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c2009ffff or 0x816f040c2009ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-200affff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 10)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c200affff or 0x816f040c200affff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-200bffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 11)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c200bffff or 0x816f040c200bffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-200cffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 12)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c200cffff or 0x816f040c200cffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-200dffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 13)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c200dffff or 0x816f040c200dffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-200effff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 14)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c200effff or 0x816f040c200effff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-200fffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIM 15)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c200fffff or 0x816f040c200fffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-2010ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 16)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c2010ffff or 0x816f040c2010ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-2011ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 17)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c2011ffff or 0x816f040c2011ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-2012ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 18)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c2012ffff or 0x816f040c2012ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-2013ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 19)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c2013ffff or 0x816f040c2013ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-2014ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 20)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c2014ffff or 0x816f040c2014ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-2015ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 21)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c2015ffff or 0x816f040c2015ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-2016ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 22)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c2016ffff or 0x816f040c2016ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-2017ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 23)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c2017ffff or 0x816f040c2017ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-2018ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 24)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c2018ffff or 0x816f040c2018ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only.

- **816f040c-2581ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (All DIMMS)**

  This message is for the use case when an implementation has detected that Memory has been Enabled.

  May also be shown as 816f040c2581ffff or 0x816f040c2581ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0130

  **User Response**
  No action; information only. One of the DIMMs :

- **816f0413-2582ffff : A PCI PERR recovery has occurred on system [ComputerSystemElementName]. (PCIs)**

  This message is for the use case when an implementation has detected a PCI PERR recovered.

  May also be shown as 816f04132582ffff or 0x816f04132582ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0233

  **User Response**
  No action; information only.

- **816f0507-0301ffff : [ProcessorElementName] has Recovered from a Configuration Mismatch. (CPU 1)**

  This message is for the use case when an implementation has Recovered from a Processor Configuration Mismatch.

  May also be shown as 816f05070301ffff or 0x816f05070301ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - CPU

  **SNMP Trap ID**
  40

  **CIM Information**
  **Prefix:** PLAT **ID:** 0063

  **User Response**
  No action; information only.

- **816f0507-0302ffff : [ProcessorElementName] has Recovered from a Configuration Mismatch. (CPU 2)**

  This message is for the use case when an implementation has Recovered from a Processor Configuration Mismatch.

  May also be shown as 816f05070302ffff or 0x816f05070302ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - CPU

  **SNMP Trap ID**
  40

  **CIM Information**
  **Prefix:** PLAT **ID:** 0063

  **User Response**
  No action; information only.

- **816f0507-2584ffff : [ProcessorElementName] has Recovered from a Configuration Mismatch. (All CPUs)**

  This message is for the use case when an implementation has Recovered from a Processor Configuration Mismatch.

  May also be shown as 816f05072584ffff or 0x816f05072584ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - CPU

  **SNMP Trap ID**
  40

  **CIM Information**
  **Prefix:** PLAT **ID:** 0063

  **User Response**
  No action; information only. One of The CPUs :

- **816f050c-2001ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c2001ffff or 0x816f050c2001ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-2002ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 2)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c2002ffff or 0x816f050c2002ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-2003ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 3)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c2003ffff or 0x816f050c2003ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-2004ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 4)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c2004ffff or 0x816f050c2004ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-2005ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c2005ffff or 0x816f050c2005ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-2006ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 6)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c2006ffff or 0x816f050c2006ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-2007ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 7)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c2007ffff or 0x816f050c2007ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-2008ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 8)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c2008ffff or 0x816f050c2008ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-2009ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 9)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c2009ffff or 0x816f050c2009ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-200affff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 10)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c200affff or 0x816f050c200affff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-200bffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c200bffff or 0x816f050c200bffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-200cffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c200cffff or 0x816f050c200cffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-200dffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 13)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c200dffff or 0x816f050c200dffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-200effff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 14)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c200effff or 0x816f050c200effff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-200fffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c200fffff or 0x816f050c200fffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-2010ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 16)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c2010ffff or 0x816f050c2010ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-2011ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 17)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c2011ffff or 0x816f050c2011ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-2012ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 18)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c2012ffff or 0x816f050c2012ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-2013ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 19)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c2013ffff or 0x816f050c2013ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-2014ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 20)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c2014ffff or 0x816f050c2014ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-2015ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 21)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c2015ffff or 0x816f050c2015ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-2016ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 22)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c2016ffff or 0x816f050c2016ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-2017ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 23)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c2017ffff or 0x816f050c2017ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-2018ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 24)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c2018ffff or 0x816f050c2018ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only.

- **816f050c-2581ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (All DIMMS)**

  This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

  May also be shown as 816f050c2581ffff or 0x816f050c2581ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - Memory

  **SNMP Trap ID**
  43

  **CIM Information**
  **Prefix:** PLAT **ID:** 0145

  **User Response**
  No action; information only. One of the DIMMs :

- **816f050d-0400ffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 0)**

  This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

  May also be shown as 816f050d0400ffff or 0x816f050d0400ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0175

  **User Response**
  No action; information only.

- **816f050d-0401ffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 1)**

  This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

  May also be shown as 816f050d0401ffff or 0x816f050d0401ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0175

  **User Response**
  No action; information only.

- **816f050d-0402ffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 2)**

  This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

  May also be shown as 816f050d0402ffff or 0x816f050d0402ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0175

  **User Response**
  No action; information only.

- **816f050d-0403ffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 3)**

  This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

  May also be shown as 816f050d0403ffff or 0x816f050d0403ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0175

  **User Response**
  No action; information only.

- **816f050d-0404ffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 4)**

This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

May also be shown as 816f050d0404ffff or 0x816f050d0404ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0175

**User Response**
No action; information only.

- **816f050d-0405ffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 5)**

  This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

  May also be shown as 816f050d0405ffff or 0x816f050d0405ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0175

  **User Response**
  No action; information only.

- **816f050d-0406ffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 6)**

This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

May also be shown as 816f050d0406ffff or 0x816f050d0406ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0175

**User Response**
No action; information only.

- **816f050d-0407ffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 7)**

  This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

  May also be shown as 816f050d0407ffff or 0x816f050d0407ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0175

  **User Response**
  No action; information only.

- **816f050d-0408ffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 8)**

This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

May also be shown as 816f050d0408ffff or 0x816f050d0408ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0175

**User Response**
No action; information only.

- **816f050d-0409ffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 9)**

  This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

  May also be shown as 816f050d0409ffff or 0x816f050d0409ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0175

  **User Response**
  No action; information only.

- **816f050d-040affff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 10)**

This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

May also be shown as 816f050d040affff or 0x816f050d040affff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0175

**User Response**
No action; information only.

- **816f050d-040bffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 11)**

  This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

  May also be shown as 816f050d040bffff or 0x816f050d040bffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0175

  **User Response**
  No action; information only.

- **816f050d-040cffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 12)**

This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

May also be shown as 816f050d040cffff or 0x816f050d040cffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0175

**User Response**
No action; information only.

- **816f050d-040dffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 13)**

  This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

  May also be shown as 816f050d040dffff or 0x816f050d040dffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0175

  **User Response**
  No action; information only.

- **816f050d-040effff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 14)**

This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

May also be shown as 816f050d040effff or 0x816f050d040effff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0175

**User Response**
No action; information only.

- **816f050d-040fffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 15)**

  This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

  May also be shown as 816f050d040fffff or 0x816f050d040fffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0175

  **User Response**
  No action; information only.

- **816f050d-0410ffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 16)**

This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

May also be shown as 816f050d0410ffff or 0x816f050d0410ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0175

**User Response**
No action; information only.

- **816f050d-0411ffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 17)**

  This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

  May also be shown as 816f050d0411ffff or 0x816f050d0411ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0175

  **User Response**
  No action; information only.

- **816f050d-0412ffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 18)**

This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

May also be shown as 816f050d0412ffff or 0x816f050d0412ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0175

**User Response**
No action; information only.

- **816f050d-0413ffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 19)**

This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

May also be shown as 816f050d0413ffff or 0x816f050d0413ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0175

**User Response**
No action; information only.

- **816f050d-0414ffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 20)**

This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

May also be shown as 816f050d0414ffff or 0x816f050d0414ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0175

**User Response**
No action; information only.

- **816f050d-0415ffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 21)**

  This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

  May also be shown as 816f050d0415ffff or 0x816f050d0415ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0175

  **User Response**
  No action; information only.

- **816f050d-0416ffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 22)**

This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

May also be shown as 816f050d0416ffff or 0x816f050d0416ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0175

**User Response**
No action; information only.

- **816f050d-0417ffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 23)**

  This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

  May also be shown as 816f050d0417ffff or 0x816f050d0417ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0175

  **User Response**
  No action; information only.

- **816f050d-0418ffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 24)**

This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

May also be shown as 816f050d0418ffff or 0x816f050d0418ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0175

**User Response**
No action; information only.

- **816f050d-0419ffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 25)**

  This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

  May also be shown as 816f050d0419ffff or 0x816f050d0419ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0175

  **User Response**
  No action; information only.

- **816f050d-041affff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 26)**

This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

May also be shown as 816f050d041affff or 0x816f050d041affff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0175

**User Response**
No action; information only.

- **816f050d-041bffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 27)**

  This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

  May also be shown as 816f050d041bffff or 0x816f050d041bffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0175

  **User Response**
  No action; information only.

- **816f050d-041cffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 28)**

This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

May also be shown as 816f050d041cffff or 0x816f050d041cffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0175

**User Response**
No action; information only.

- **816f050d-041dffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 29)**

  This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

  May also be shown as 816f050d041dffff or 0x816f050d041dffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0175

  **User Response**
  No action; information only.

- **816f050d-041effff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 30)**

This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

May also be shown as 816f050d041effff or 0x816f050d041effff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0175

**User Response**
No action; information only.

- **816f050d-041fffff : Critical Array [ComputerSystemElementName] has deasserted. (Drive 31)**

  This message is for the use case when an implementation has detected that an Critiacal Array has deasserted.

  May also be shown as 816f050d041fffff or 0x816f050d041fffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0175

  **User Response**
  No action; information only.

- **816f0607-0301ffff : An SM BIOS Uncorrectable CPU complex error for [ProcessorElementName] has deasserted. (CPU 1)**

This message is for the use case when an SM BIOS Uncorrectable CPU complex error has deasserted.

May also be shown as 816f06070301ffff or 0x816f06070301ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - CPU

**SNMP Trap ID**
40

**CIM Information**
**Prefix:** PLAT **ID:** 0817

**User Response**
No action; information only.

- **816f0607-0302ffff : An SM BIOS Uncorrectable CPU complex error for [ProcessorElementName] has deasserted. (CPU 2)**

  This message is for the use case when an SM BIOS Uncorrectable CPU complex error has deasserted.

  May also be shown as 816f06070302ffff or 0x816f06070302ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - CPU

  **SNMP Trap ID**
  40

  **CIM Information**
  **Prefix:** PLAT **ID:** 0817

  **User Response**
  No action; information only.

- **816f0607-2584ffff : An SM BIOS Uncorrectable CPU complex error for [ProcessorElementName] has deasserted. (All CPUs)**

  This message is for the use case when an SM BIOS Uncorrectable CPU complex error has deasserted.

May also be shown as 816f06072584ffff or 0x816f06072584ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - CPU

**SNMP Trap ID**
40

**CIM Information**
**Prefix:** PLAT **ID:** 0817

**User Response**
No action; information only. One of The CPUs :

- **816f0608-1301ffff : [PowerSupplyElementName] Configuration is OK. (PS Configuration)**

  This message is for the use case when an implementation when a Power Supply configuration is OK.

  May also be shown as 816f06081301ffff or 0x816f06081301ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Power

  **SNMP Trap ID**
  4

  **CIM Information**
  **Prefix:** PLAT **ID:** 0105

  **User Response**
  No action; information only.

- **816f060d-0400ffff : Array in system [ComputerSystemElementName] has been restored. (Drive 0)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d0400ffff or 0x816f060d0400ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0177

**User Response**
No action; information only.

- **816f060d-0401ffff : Array in system [ComputerSystemElementName] has been restored. (Drive 1)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d0401ffff or 0x816f060d0401ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0177

  **User Response**
  No action; information only.

- **816f060d-0402ffff : Array in system [ComputerSystemElementName] has been restored. (Drive 2)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d0402ffff or 0x816f060d0402ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0177

**User Response**
No action; information only.

- **816f060d-0403ffff : Array in system [ComputerSystemElementName] has been restored. (Drive 3)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d0403ffff or 0x816f060d0403ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0177

  **User Response**
  No action; information only.

- **816f060d-0404ffff : Array in system [ComputerSystemElementName] has been restored. (Drive 4)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d0404ffff or 0x816f060d0404ffff

  **Severity**

Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0177

**User Response**
No action; information only.

- **816f060d-0405ffff : Array in system [ComputerSystemElementName] has been restored. (Drive 5)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d0405ffff or 0x816f060d0405ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0177

  **User Response**
  No action; information only.

- **816f060d-0406ffff : Array in system [ComputerSystemElementName] has been restored. (Drive 6)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d0406ffff or 0x816f060d0406ffff

  **Severity**
  Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0177

**User Response**
No action; information only.

- **816f060d-0407ffff : Array in system [ComputerSystemElementName] has been restored. (Drive 7)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d0407ffff or 0x816f060d0407ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0177

  **User Response**
  No action; information only.

- **816f060d-0408ffff : Array in system [ComputerSystemElementName] has been restored. (Drive 8)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d0408ffff or 0x816f060d0408ffff

  **Severity**
  Info

  **Serviceable**

No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0177

**User Response**
No action; information only.

- **816f060d-0409ffff : Array in system [ComputerSystemElementName] has been restored. (Drive 9)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d0409ffff or 0x816f060d0409ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0177

  **User Response**
  No action; information only.

- **816f060d-040affff : Array in system [ComputerSystemElementName] has been restored. (Drive 10)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d040affff or 0x816f060d040affff

  **Severity**
  Info

  **Serviceable**
  No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0177

**User Response**
No action; information only.

- **816f060d-040bffff : Array in system [ComputerSystemElementName] has been restored. (Drive 11)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d040bffff or 0x816f060d040bffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0177

  **User Response**
  No action; information only.

- **816f060d-040cffff : Array in system [ComputerSystemElementName] has been restored. (Drive 12)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d040cffff or 0x816f060d040cffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**

No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0177

**User Response**
No action; information only.

- **816f060d-040dffff : Array in system [ComputerSystemElementName] has been restored. (Drive 13)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d040dffff or 0x816f060d040dffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0177

  **User Response**
  No action; information only.

- **816f060d-040effff : Array in system [ComputerSystemElementName] has been restored. (Drive 14)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d040effff or 0x816f060d040effff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0177

**User Response**
No action; information only.

- **816f060d-040fffff : Array in system [ComputerSystemElementName] has been restored. (Drive 15)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d040fffff or 0x816f060d040fffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0177

  **User Response**
  No action; information only.

- **816f060d-0410ffff : Array in system [ComputerSystemElementName] has been restored. (Drive 16)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d0410ffff or 0x816f060d0410ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**

Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0177

**User Response**
No action; information only.

- **816f060d-0411ffff : Array in system [ComputerSystemElementName] has been restored. (Drive 17)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d0411ffff or 0x816f060d0411ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0177

  **User Response**
  No action; information only.

- **816f060d-0412ffff : Array in system [ComputerSystemElementName] has been restored. (Drive 18)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d0412ffff or 0x816f060d0412ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0177

**User Response**
No action; information only.

- **816f060d-0413ffff : Array in system [ComputerSystemElementName] has been restored. (Drive 19)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d0413ffff or 0x816f060d0413ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0177

  **User Response**
  No action; information only.

- **816f060d-0414ffff : Array in system [ComputerSystemElementName] has been restored. (Drive 20)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d0414ffff or 0x816f060d0414ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**

5

**CIM Information**
**Prefix:** PLAT **ID:** 0177

**User Response**
No action; information only.

- **816f060d-0415ffff : Array in system [ComputerSystemElementName] has been restored. (Drive 21)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d0415ffff or 0x816f060d0415ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0177

  **User Response**
  No action; information only.

- **816f060d-0416ffff : Array in system [ComputerSystemElementName] has been restored. (Drive 22)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d0416ffff or 0x816f060d0416ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

**CIM Information**
**Prefix:** PLAT **ID:** 0177

**User Response**
No action; information only.

- **816f060d-0417ffff : Array in system [ComputerSystemElementName] has been restored. (Drive 23)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d0417ffff or 0x816f060d0417ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**
**Prefix:** PLAT **ID:** 0177

**User Response**
No action; information only.

- **816f060d-0418ffff : Array in system [ComputerSystemElementName] has been restored. (Drive 24)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d0418ffff or 0x816f060d0418ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Hard Disk drive

**SNMP Trap ID**
5

**CIM Information**

**Prefix:** PLAT **ID:** 0177

**User Response**
No action; information only.

- **816f060d-0419ffff : Array in system [ComputerSystemElementName] has been restored. (Drive 25)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d0419ffff or 0x816f060d0419ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0177

  **User Response**
  No action; information only.

- **816f060d-041affff : Array in system [ComputerSystemElementName] has been restored. (Drive 26)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d041affff or 0x816f060d041affff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0177

**User Response**
No action; information only.

- **816f060d-041bffff : Array in system [ComputerSystemElementName] has been restored. (Drive 27)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d041bffff or 0x816f060d041bffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0177

  **User Response**
  No action; information only.

- **816f060d-041cffff : Array in system [ComputerSystemElementName] has been restored. (Drive 28)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d041cffff or 0x816f060d041cffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0177

  **User Response**

No action; information only.

- **816f060d-041dffff : Array in system [ComputerSystemElementName] has been restored. (Drive 29)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d041dffff or 0x816f060d041dffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0177

  **User Response**
  No action; information only.

- **816f060d-041effff : Array in system [ComputerSystemElementName] has been restored. (Drive 30)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d041effff or 0x816f060d041effff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0177

  **User Response**
  No action; information only.

- **816f060d-041fffff : Array in system [ComputerSystemElementName] has been restored. (Drive 31)**

  This message is for the use case when an implementation has detected that a Failed Array has been Restored.

  May also be shown as 816f060d041fffff or 0x816f060d041fffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Hard Disk drive

  **SNMP Trap ID**
  5

  **CIM Information**
  **Prefix:** PLAT **ID:** 0177

  **User Response**
  No action; information only.

- **816f070c-2001ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 1)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c2001ffff or 0x816f070c2001ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-2002ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 2)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c2002ffff or 0x816f070c2002ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-2003ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 3)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c2003ffff or 0x816f070c2003ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-2004ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 4)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c2004ffff or 0x816f070c2004ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-2005ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 5)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c2005ffff or 0x816f070c2005ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-2006ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 6)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c2006ffff or 0x816f070c2006ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-2007ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 7)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c2007ffff or 0x816f070c2007ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-2008ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 8)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c2008ffff or 0x816f070c2008ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-2009ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 9)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c2009ffff or 0x816f070c2009ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-200affff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 10)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c200affff or 0x816f070c200affff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-200bffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 11)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c200bffff or 0x816f070c200bffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-200cffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 12)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c200cffff or 0x816f070c200cffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-200dffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 13)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c200dffff or 0x816f070c200dffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-200effff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 14)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c200effff or 0x816f070c200effff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-200fffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 15)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c200fffff or 0x816f070c200fffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-2010ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 16)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c2010ffff or 0x816f070c2010ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-2011ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 17)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c2011ffff or 0x816f070c2011ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-2012ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 18)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c2012ffff or 0x816f070c2012ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-2013ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 19)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c2013ffff or 0x816f070c2013ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-2014ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 20)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c2014ffff or 0x816f070c2014ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-2015ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 21)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c2015ffff or 0x816f070c2015ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-2016ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 22)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c2016ffff or 0x816f070c2016ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-2017ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 23)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c2017ffff or 0x816f070c2017ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-2018ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 24)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c2018ffff or 0x816f070c2018ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only.

- **816f070c-2581ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (All DIMMS)**

  This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

  May also be shown as 816f070c2581ffff or 0x816f070c2581ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Memory

  **SNMP Trap ID**
  41

  **CIM Information**
  **Prefix:** PLAT **ID:** 0127

  **User Response**
  No action; information only. One of the DIMMs :

- **816f070d-0400ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 0)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d0400ffff or 0x816f070d0400ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-0401ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 1)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d0401ffff or 0x816f070d0401ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-0402ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 2)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d0402ffff or 0x816f070d0402ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-0403ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 3)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d0403ffff or 0x816f070d0403ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-0404ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 4)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d0404ffff or 0x816f070d0404ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-0405ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 5)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d0405ffff or 0x816f070d0405ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-0406ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 6)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d0406ffff or 0x816f070d0406ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-0407ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 7)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d0407ffff or 0x816f070d0407ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-0408ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 8)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d0408ffff or 0x816f070d0408ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-0409ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 9)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d0409ffff or 0x816f070d0409ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-040affff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 10)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d040affff or 0x816f070d040affff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-040bffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 11)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d040bffff or 0x816f070d040bffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-040cffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 12)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d040cffff or 0x816f070d040cffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-040dffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 13)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d040dffff or 0x816f070d040dffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-040effff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 14)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d040effff or 0x816f070d040effff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-040fffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 15)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d040fffff or 0x816f070d040fffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-0410ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 16)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d0410ffff or 0x816f070d0410ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-0411ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 17)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d0411ffff or 0x816f070d0411ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-0412ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 18)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d0412ffff or 0x816f070d0412ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-0413ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 19)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d0413ffff or 0x816f070d0413ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-0414ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 20)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d0414ffff or 0x816f070d0414ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-0415ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 21)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d0415ffff or 0x816f070d0415ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-0416ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 22)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d0416ffff or 0x816f070d0416ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-0417ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 23)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d0417ffff or 0x816f070d0417ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-0418ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 24)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d0418ffff or 0x816f070d0418ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-0419ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 25)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d0419ffff or 0x816f070d0419ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-041affff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 26)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d041affff or 0x816f070d041affff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-041bffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 27)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d041bffff or 0x816f070d041bffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-041cffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 28)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d041cffff or 0x816f070d041cffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-041dffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 29)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d041dffff or 0x816f070d041dffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-041effff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 30)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d041effff or 0x816f070d041effff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f070d-041fffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 31)**

  This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

  May also be shown as 816f070d041fffff or 0x816f070d041fffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0179

  **User Response**
  No action; information only.

- **816f0807-0301ffff : [ProcessorElementName] has been Enabled. (CPU 1)**

  This message is for the use case when an implementation has detected a Processor has been Enabled.

  May also be shown as 816f08070301ffff or 0x816f08070301ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0060

  **User Response**
  No action; information only.

- **816f0807-0302ffff : [ProcessorElementName] has been Enabled. (CPU 2)**

  This message is for the use case when an implementation has detected a Processor has been Enabled.

  May also be shown as 816f08070302ffff or 0x816f08070302ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0060

  **User Response**
  No action; information only.

- **816f0807-2584ffff : [ProcessorElementName] has been Enabled. (All CPUs)**

This message is for the use case when an implementation has detected a Processor has been Enabled.

May also be shown as 816f08072584ffff or 0x816f08072584ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
System - Other

**SNMP Trap ID**

**CIM Information**
**Prefix:** PLAT **ID:** 0060

**User Response**
No action; information only. One of The CPUs :

- **816f0813-2581ffff : System [ComputerSystemElementName]has recovered from an Uncorrectable Bus Error. (DIMMs)**

  This message is for the use case when an implementation has detected a that a system has recovered from a Bus Uncorrectable Error.

  May also be shown as 816f08132581ffff or 0x816f08132581ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0241

  **User Response**
  No action; information only.

- **816f0813-2582ffff : System [ComputerSystemElementName]has recovered from an Uncorrectable Bus Error. (PCIs)**

This message is for the use case when an implementation has detected a that a system has recovered from a Bus Uncorrectable Error.

May also be shown as 816f08132582ffff or 0x816f08132582ffff

**Severity**
Info

**Serviceable**
No

**Automatically notify support**
No

**Alert Category**
Critical - Other

**SNMP Trap ID**
50

**CIM Information**
**Prefix:** PLAT **ID:** 0241

**User Response**
No action; information only.

- **816f0813-2584ffff : System [ComputerSystemElementName]has recovered from an Uncorrectable Bus Error. (CPUs)**

  This message is for the use case when an implementation has detected a that a system has recovered from a Bus Uncorrectable Error.

  May also be shown as 816f08132584ffff or 0x816f08132584ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0241

  **User Response**
  No action; information only.

- **816f090c-2001ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 1)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c2001ffff or 0x816f090c2001ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-2002ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 2)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c2002ffff or 0x816f090c2002ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-2003ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 3)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c2003ffff or 0x816f090c2003ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-2004ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 4)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c2004ffff or 0x816f090c2004ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-2005ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 5)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c2005ffff or 0x816f090c2005ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-2006ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 6)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c2006ffff or 0x816f090c2006ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-2007ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 7)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c2007ffff or 0x816f090c2007ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-2008ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 8)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c2008ffff or 0x816f090c2008ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-2009ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 9)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c2009ffff or 0x816f090c2009ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-200affff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 10)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c200affff or 0x816f090c200affff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-200bffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 11)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c200bffff or 0x816f090c200bffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-200cffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 12)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c200cffff or 0x816f090c200cffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-200dffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 13)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c200dffff or 0x816f090c200dffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-200effff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 14)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c200effff or 0x816f090c200effff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-200fffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 15)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c200fffff or 0x816f090c200fffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-2010ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 16)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c2010ffff or 0x816f090c2010ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-2011ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 17)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c2011ffff or 0x816f090c2011ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-2012ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 18)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c2012ffff or 0x816f090c2012ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-2013ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 19)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c2013ffff or 0x816f090c2013ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-2014ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 20)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c2014ffff or 0x816f090c2014ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-2015ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 21)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c2015ffff or 0x816f090c2015ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-2016ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 22)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c2016ffff or 0x816f090c2016ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-2017ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 23)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c2017ffff or 0x816f090c2017ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f090c-2018ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 24)**

  This message is for the use case when an implementation has detected Memory is no longer Throttled.

  May also be shown as 816f090c2018ffff or 0x816f090c2018ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  System - Other

  **SNMP Trap ID**

  **CIM Information**
  **Prefix:** PLAT **ID:** 0143

  **User Response**
  No action; information only.

- **816f0a07-0301ffff : The Processor [ProcessorElementName] is no longer operating in a Degraded State. (CPU 1)**

  This message is for the use case when an implementation has detected a Processor is no longer running in the Degraded state.

  May also be shown as 816f0a070301ffff or 0x816f0a070301ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - CPU

  **SNMP Trap ID**
  42

  **CIM Information**
  **Prefix:** PLAT **ID:** 0039

  **User Response**
  No action; information only.

- **816f0a07-0302ffff : The Processor [ProcessorElementName] is no longer operating in a Degraded State. (CPU 2)**

  This message is for the use case when an implementation has detected a Processor is no longer running in the Degraded state.

  May also be shown as 816f0a070302ffff or 0x816f0a070302ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Warning - CPU

  **SNMP Trap ID**
  42

  **CIM Information**
  **Prefix:** PLAT **ID:** 0039

  **User Response**
  No action; information only.

- **816f0a0c-2001ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c2001ffff or 0x816f0a0c2001ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-2002ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 2)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c2002ffff or 0x816f0a0c2002ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-2003ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 3)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c2003ffff or 0x816f0a0c2003ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-2004ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 4)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c2004ffff or 0x816f0a0c2004ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-2005ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c2005ffff or 0x816f0a0c2005ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-2006ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 6)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c2006ffff or 0x816f0a0c2006ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-2007ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 7)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c2007ffff or 0x816f0a0c2007ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-2008ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 8)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c2008ffff or 0x816f0a0c2008ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-2009ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 9)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c2009ffff or 0x816f0a0c2009ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-200affff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 10)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c200affff or 0x816f0a0c200affff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-200bffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c200bffff or 0x816f0a0c200bffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-200cffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c200cffff or 0x816f0a0c200cffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-200dffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 13)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c200dffff or 0x816f0a0c200dffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-200effff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 14)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c200effff or 0x816f0a0c200effff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-200fffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c200fffff or 0x816f0a0c200fffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-2010ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 16)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c2010ffff or 0x816f0a0c2010ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-2011ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 17)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c2011ffff or 0x816f0a0c2011ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-2012ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 18)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c2012ffff or 0x816f0a0c2012ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-2013ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 19)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c2013ffff or 0x816f0a0c2013ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-2014ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 20)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c2014ffff or 0x816f0a0c2014ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-2015ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 21)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c2015ffff or 0x816f0a0c2015ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-2016ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 22)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c2016ffff or 0x816f0a0c2016ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-2017ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 23)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c2017ffff or 0x816f0a0c2017ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a0c-2018ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 24)**

  This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

  May also be shown as 816f0a0c2018ffff or 0x816f0a0c2018ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Temperature

  **SNMP Trap ID**
  0

  **CIM Information**
  **Prefix:** PLAT **ID:** 0147

  **User Response**
  No action; information only.

- **816f0a13-0301ffff : System [ComputerSystemElementName] has recovered from a Fatal Bus Error. (CPU 1 PECI)**

  This message is for the use case when an implementation has detected that a system has recovered from a Bus Fatal Error.

  May also be shown as 816f0a130301ffff or 0x816f0a130301ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

  **SNMP Trap ID**
  50

  **CIM Information**
  **Prefix:** PLAT **ID:** 0245

  **User Response**

  1. (Trained technician only) Replace microprocessor n (see Removing a microprocessor and heat sink and Replacing a microprocessor and heat sink).
  2. If the problem persists and there is no other CPU with the same error indication, replace the system board.
  3. (Trained technician only) Replace the system board (see Removing the system board and Replacing the system board). (n = microprocessor number)

- **816f0a13-0302ffff : System [ComputerSystemElementName] has recovered from a Fatal Bus Error. (CPU 2 PECI)**

  This message is for the use case when an implementation has detected that a system has recovered from a Bus Fatal Error.

  May also be shown as 816f0a130302ffff or 0x816f0a130302ffff

  **Severity**
  Info

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Alert Category**
  Critical - Other

**SNMP Trap ID**
50

**CIM Information**
**Prefix:** PLAT **ID:** 0245

**User Response**

1. (Trained technician only) Replace microprocessor n (see Removing a microprocessor and heat sink and Replacing a microprocessor and heat sink).
2. If the problem persists and there is no other CPU with the same error indication, replace the system board.
3. (Trained technician only) Replace the system board (see Removing the system board and Replacing the system board). (n = microprocessor number)

## IMM Events that automatically notify Support

You can configure the IBM Flex System Manager or the CMM to automatically notify Support (also known as *call home*) if certain types of errors are encountered. If you have configured this function, see the table for a list of events that automatically notify Support.

*Table 39. Events that automatically notify Support*

| Event ID | Message String | Automatically Notify Support |
|---|---|---|
| 40000086-00000000 | Test Call Home Generated by user [arg1]. | Yes |
| 40000087-00000000 | Manual Call Home by user [arg1]: [arg2]. | Yes |
| 80010202-0701ffff | Numeric sensor [NumericSensorElementName] going low (lower critical) has asserted. | Yes |
| 80010902-0701ffff | Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. | Yes |
| 806f0021-2201ffff | Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (No Op ROM Space) | Yes |
| 806f0021-2582ffff | Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (All PCI Error) | Yes |
| 806f0021-3001ffff | Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (PCI 1) | Yes |
| 806f0021-3002ffff | Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (PCI 2) | Yes |
| 806f0021-3003ffff | Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (PCI 3) | Yes |
| 806f0021-3004ffff | Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (PCI 4) | Yes |
| 806f0021-3005ffff | Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (PCI 5) | Yes |
| 806f0021-3006ffff | Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (PCI 6) | Yes |

*Table 39. Events that automatically notify Support (continued)*

| Event ID | Message String | Automatically Notify Support |
|---|---|---|
| 806f0021-3007ffff | Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (PCI 7) | Yes |
| 806f0021-3008ffff | Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (PCI 8) | Yes |
| 806f0108-0a01ffff | [PowerSupplyElementName] has Failed. (Power Supply 1) | Yes |
| 806f0108-0a02ffff | [PowerSupplyElementName] has Failed. (Power Supply 2) | Yes |
| 806f010c-2001ffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1) | Yes |
| 806f010c-2002ffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 2) | Yes |
| 806f010c-2003ffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 3) | Yes |
| 806f010c-2004ffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 4) | Yes |
| 806f010c-2005ffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5) | Yes |
| 806f010c-2006ffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 6) | Yes |
| 806f010c-2007ffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 7) | Yes |
| 806f010c-2008ffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 8) | Yes |
| 806f010c-2009ffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 9) | Yes |
| 806f010c-200affff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 10) | Yes |
| 806f010c-200bffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11) | Yes |
| 806f010c-200cffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12) | Yes |
| 806f010c-200dffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 13) | Yes |
| 806f010c-200effff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 14) | Yes |

*Table 39. Events that automatically notify Support (continued)*

| Event ID | Message String | Automatically Notify Support |
|---|---|---|
| 806f010c-200fffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15) | Yes |
| 806f010c-2010ffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 16) | Yes |
| 806f010c-2011ffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 17) | Yes |
| 806f010c-2012ffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 18) | Yes |
| 806f010c-2013ffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 19) | Yes |
| 806f010c-2014ffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 20) | Yes |
| 806f010c-2015ffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 21) | Yes |
| 806f010c-2016ffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 22) | Yes |
| 806f010c-2017ffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 23) | Yes |
| 806f010c-2018ffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 24) | Yes |
| 806f010c-2581ffff | Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (All DIMMS) | Yes |
| 806f010d-0400ffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 0) | Yes |
| 806f010d-0401ffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 1) | Yes |
| 806f010d-0402ffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 2) | Yes |
| 806f010d-0403ffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 3) | Yes |
| 806f010d-0404ffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 4) | Yes |
| 806f010d-0405ffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 5) | Yes |
| 806f010d-0406ffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 6) | Yes |

*Table 39. Events that automatically notify Support (continued)*

| Event ID | Message String | Automatically Notify Support |
|---|---|---|
| 806f010d-0407ffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 7) | Yes |
| 806f010d-0408ffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 8) | Yes |
| 806f010d-0409ffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 9) | Yes |
| 806f010d-040affff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 10) | Yes |
| 806f010d-040bffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 11) | Yes |
| 806f010d-040cffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 12) | Yes |
| 806f010d-040dffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 13) | Yes |
| 806f010d-040effff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 14) | Yes |
| 806f010d-040fffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 15) | Yes |
| 806f010d-0410ffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 16) | Yes |
| 806f010d-0411ffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 17) | Yes |
| 806f010d-0412ffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 18) | Yes |
| 806f010d-0413ffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 19) | Yes |
| 806f010d-0414ffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 20) | Yes |
| 806f010d-0415ffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 21) | Yes |
| 806f010d-0416ffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 22) | Yes |
| 806f010d-0417ffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 23) | Yes |
| 806f010d-0418ffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 24) | Yes |
| 806f010d-0419ffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 25) | Yes |
| 806f010d-041affff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 26) | Yes |
| 806f010d-041bffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 27) | Yes |
| 806f010d-041cffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 28) | Yes |

*Table 39. Events that automatically notify Support (continued)*

| Event ID | Message String | Automatically Notify Support |
|---|---|---|
| 806f010d-041dffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 29) | Yes |
| 806f010d-041effff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 30) | Yes |
| 806f010d-041fffff | The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 31) | Yes |
| 806f0207-0301ffff | [ProcessorElementName] has Failed with FRB1/BIST condition. (CPU 1) | Yes |
| 806f0207-0302ffff | [ProcessorElementName] has Failed with FRB1/BIST condition. (CPU 2) | Yes |
| 806f0207-2584ffff | [ProcessorElementName] has Failed with FRB1/BIST condition. (All CPUs) | Yes |
| 806f020d-0400ffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 0) | Yes |
| 806f020d-0401ffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 1) | Yes |
| 806f020d-0402ffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 2) | Yes |
| 806f020d-0403ffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 3) | Yes |
| 806f020d-0404ffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 4) | Yes |
| 806f020d-0405ffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 5) | Yes |
| 806f020d-0406ffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 6) | Yes |
| 806f020d-0407ffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 7) | Yes |
| 806f020d-0408ffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 8) | Yes |
| 806f020d-0409ffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 9) | Yes |
| 806f020d-040affff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 10) | Yes |
| 806f020d-040bffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 11) | Yes |
| 806f020d-040cffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 12) | Yes |
| 806f020d-040dffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 13) | Yes |
| 806f020d-040effff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 14) | Yes |
| 806f020d-040fffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 15) | Yes |

*Table 39. Events that automatically notify Support (continued)*

| Event ID | Message String | Automatically Notify Support |
|---|---|---|
| 806f020d-0410ffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 16) | Yes |
| 806f020d-0411ffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 17) | Yes |
| 806f020d-0412ffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 18) | Yes |
| 806f020d-0413ffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 19) | Yes |
| 806f020d-0414ffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 20) | Yes |
| 806f020d-0415ffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 21) | Yes |
| 806f020d-0416ffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 22) | Yes |
| 806f020d-0417ffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 23) | Yes |
| 806f020d-0418ffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 24) | Yes |
| 806f020d-0419ffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 25) | Yes |
| 806f020d-041affff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 26) | Yes |
| 806f020d-041bffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 27) | Yes |
| 806f020d-041cffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 28) | Yes |
| 806f020d-041dffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 29) | Yes |
| 806f020d-041effff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 30) | Yes |
| 806f020d-041fffff | Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 31) | Yes |
| 806f050c-2001ffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1) | Yes |
| 806f050c-2002ffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 2) | Yes |
| 806f050c-2003ffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 3) | Yes |
| 806f050c-2004ffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 4) | Yes |

*Table 39. Events that automatically notify Support (continued)*

| Event ID | Message String | Automatically Notify Support |
|---|---|---|
| 806f050c-2005ffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5) | Yes |
| 806f050c-2006ffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 6) | Yes |
| 806f050c-2007ffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 7) | Yes |
| 806f050c-2008ffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 8) | Yes |
| 806f050c-2009ffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 9) | Yes |
| 806f050c-200affff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 10) | Yes |
| 806f050c-200bffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11) | Yes |
| 806f050c-200cffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12) | Yes |
| 806f050c-200dffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 13) | Yes |
| 806f050c-200effff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 14) | Yes |
| 806f050c-200fffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15) | Yes |
| 806f050c-2010ffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 16) | Yes |
| 806f050c-2011ffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 17) | Yes |
| 806f050c-2012ffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 18) | Yes |
| 806f050c-2013ffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 19) | Yes |
| 806f050c-2014ffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 20) | Yes |

*Table 39. Events that automatically notify Support (continued)*

| Event ID | Message String | Automatically Notify Support |
|---|---|---|
| 806f050c-2015ffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 21) | Yes |
| 806f050c-2016ffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 22) | Yes |
| 806f050c-2017ffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 23) | Yes |
| 806f050c-2018ffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 24) | Yes |
| 806f050c-2581ffff | Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (All DIMMS) | Yes |
| 806f060d-0400ffff | Array [ComputerSystemElementName] has failed. (Drive 0) | Yes |
| 806f060d-0401ffff | Array [ComputerSystemElementName] has failed. (Drive 1) | Yes |
| 806f060d-0402ffff | Array [ComputerSystemElementName] has failed. (Drive 2) | Yes |
| 806f060d-0403ffff | Array [ComputerSystemElementName] has failed. (Drive 3) | Yes |
| 806f060d-0404ffff | Array [ComputerSystemElementName] has failed. (Drive 4) | Yes |
| 806f060d-0405ffff | Array [ComputerSystemElementName] has failed. (Drive 5) | Yes |
| 806f060d-0406ffff | Array [ComputerSystemElementName] has failed. (Drive 6) | Yes |
| 806f060d-0407ffff | Array [ComputerSystemElementName] has failed. (Drive 7) | Yes |
| 806f060d-0408ffff | Array [ComputerSystemElementName] has failed. (Drive 8) | Yes |
| 806f060d-0409ffff | Array [ComputerSystemElementName] has failed. (Drive 9) | Yes |
| 806f060d-040affff | Array [ComputerSystemElementName] has failed. (Drive 10) | Yes |
| 806f060d-040bffff | Array [ComputerSystemElementName] has failed. (Drive 11) | Yes |
| 806f060d-040cffff | Array [ComputerSystemElementName] has failed. (Drive 12) | Yes |
| 806f060d-040dffff | Array [ComputerSystemElementName] has failed. (Drive 13) | Yes |
| 806f060d-040effff | Array [ComputerSystemElementName] has failed. (Drive 14) | Yes |

*Table 39. Events that automatically notify Support (continued)*

| Event ID | Message String | Automatically Notify Support |
|---|---|---|
| 806f060d-040fffff | Array [ComputerSystemElementName] has failed. (Drive 15) | Yes |
| 806f060d-0410ffff | Array [ComputerSystemElementName] has failed. (Drive 16) | Yes |
| 806f060d-0411ffff | Array [ComputerSystemElementName] has failed. (Drive 17) | Yes |
| 806f060d-0412ffff | Array [ComputerSystemElementName] has failed. (Drive 18) | Yes |
| 806f060d-0413ffff | Array [ComputerSystemElementName] has failed. (Drive 19) | Yes |
| 806f060d-0414ffff | Array [ComputerSystemElementName] has failed. (Drive 20) | Yes |
| 806f060d-0415ffff | Array [ComputerSystemElementName] has failed. (Drive 21) | Yes |
| 806f060d-0416ffff | Array [ComputerSystemElementName] has failed. (Drive 22) | Yes |
| 806f060d-0417ffff | Array [ComputerSystemElementName] has failed. (Drive 23) | Yes |
| 806f060d-0418ffff | Array [ComputerSystemElementName] has failed. (Drive 24) | Yes |
| 806f060d-0419ffff | Array [ComputerSystemElementName] has failed. (Drive 25) | Yes |
| 806f060d-041affff | Array [ComputerSystemElementName] has failed. (Drive 26) | Yes |
| 806f060d-041bffff | Array [ComputerSystemElementName] has failed. (Drive 27) | Yes |
| 806f060d-041cffff | Array [ComputerSystemElementName] has failed. (Drive 28) | Yes |
| 806f060d-041dffff | Array [ComputerSystemElementName] has failed. (Drive 29) | Yes |
| 806f060d-041effff | Array [ComputerSystemElementName] has failed. (Drive 30) | Yes |
| 806f060d-041fffff | Array [ComputerSystemElementName] has failed. (Drive 31) | Yes |
| 806f0813-2581ffff | A Uncorrectable Bus Error has occurred on system [ComputerSystemElementName]. (DIMMs) | Yes |
| 806f0813-2582ffff | A Uncorrectable Bus Error has occurred on system [ComputerSystemElementName]. (PCIs) | Yes |
| 806f0813-2584ffff | A Uncorrectable Bus Error has occurred on system [ComputerSystemElementName]. (CPUs) | Yes |

# Appendix B. UEFI (POST) error codes

This section details the UEFI (POST) error codes.

UEFI (POST) diagnostic error codes can be generated when the server starts up or while the server is running. UEFI (POST) codes are logged in the IMM2 event log in the server.

For each event code, the following fields are displayed:

**Event identifier**
An identifier that uniquely identifies an event.

**Event description**
The logged message string that appears for an event.

**Explanation**
Additional information to explain why the event occurred.

**Severity**
An indication of the level of concern for the condition. The severity is abbreviated in the event log to the first character. The following severities can be displayed:

*Table 40. Event severity levels*

| Severity | Description |
|---|---|
| Informational | An informational message is something that was recorded for audit purposes, usually a user action or a change of states that is normal behavior. |
| Warning | A warning is not as severe as an error, but if possible, the condition should be corrected before it becomes an error. It might also be a condition that requires additional monitoring or maintenance. |
| Error | An error typically indicates a failure or critical condition that impairs service or an expected function. |

**User response**
Indicate the actions that you should take to resolve the event.

Perform the steps listed in this section in the order shown until the problem is solved. After you perform all of the actions that are described in this field, if you cannot solve the problem, contact Lenovo support.

The following is the list of the UEFI (POST) error codes and suggested actions to correct the detected problems.

## List of UEFI events

This section lists all messages that can be sent from UEFI.

- **I.11002 [I.11002] A processor mismatch has been detected between one or more processors in the system.**

  **Explanation:** One or More Mismatched Processors Detected

  **Severity**

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Error

**User Response**

Complete the following steps:

1. This message could occur with messages about other Processor configuration problems. Resolve those messages first.
2. If the problem persists, ensure that matching processors are installed (i.e., matching option part numbers, etc)
3. Verify that the Processor's are installed in the correct sockets according to the service information for this product. If not, correct that problem.
4. Check IBM support site for an applicable service bulletin or firmware update that applies to this Processor error.
5. (Trained Service technician only) Replace mismatching processor. Inspect Processor socket and replace the system board first if socket is damaged.

- **I.18005 [I.18005] A discrepancy has been detected in the number of cores reported by one or more processor packages within the system.**

  **Explanation:** Processors have mismatched number of cores

  **Severity**

  Error

  **User Response**

  Complete the following steps:

  1. If this is a newly installed option, ensure that matching Processors are installed in the correct Processor sockets according to the service information for this product.
  2. Check IBM support site for an applicable service bulletin that applies to this Processor error.
  3. (Trained Service technician only) Replace Processor. Inspect Processor socket and replace the system board first if socket is damaged.

- **I.18006 [I.18006] A mismatch between the maximum allowed QPI link speed has been detected for one or more processor packages.**

  **Explanation:** Processors have mismatched QPI Speed

  **Severity**

  Error

  **User Response**

  Complete the following steps:

  1. If this is a newly installed option, ensure that matching Processor CPUs are installed in the correct ProcessorCPU sockets according to the service information for this product
  2. Check IBM support site for an applicable retain tipservice bulletin or firmware update that applies to this Processor error.
  3. (Trained Service technician only) Replace Processor. Inspect Processor socket and replace the system board first if socket is damaged.

- **I.18007 [I.18007] A power segment mismatch has been detected for one or more processor packages.**

  **Explanation:** Processors have mismatched Power Segments

  **Severity**
  Error

  **User Response**
  Complete the following steps:

  1. Processors installed do not have the same power requirements
  2. Ensure that all Processors have matching power requirements (such as 65, 95, or 130 Watts)
  3. If power requirements match, check IBM support site for an applicable service bulletin or firmware update that applies to this Processor error.
  4. (Trained Service technician only) Replace Processor. Inspect Processor socket and replace the system board first if socket is damaged

- **I.18008 [I.18008] Currently, there is no additional information for this event.**

  **Explanation:** Processors have mismatched Internal DDR3 Frequency

  **Severity**
  Error

  **User Response**
  Complete the following steps:

  1. Verify that matching DIMMs are installed in the correct population sequence, according to the service information for this product. {Add link to Memory chart.} Correct any configuration issues found.
  2. (Trained Service technician only) Replace associated Processor. Inspect Processor socket and replace the system board first if socket is damaged

- **I.18009 [I.18009] A core speed mismatch has been detected for one or more processor packages.**

  **Explanation:** Processors have mismatched Core Speed

  **Severity**
  Error

  **User Response**
  Complete the following steps:

  1. Verify that matching processors are installed in the correct processor sockets according to the service information for this product. Correct any mismatch issues found.
  2. Check IBM support site for an applicable service bulletin or firmware update that applies to this Processor error.
  3. (Trained Service technician only) Replace Processor. Inspect Processor socket and replace the system board first if socket is damaged.

- **I.1800A [I.1800A] A mismatch has been detected between the speed at which a QPI link has trained between two or more processor packages.**

**Explanation:** Processors have mismatched Bus Speed

**Severity**
Error

**User Response**
Complete the following steps:

1. Verify that the Processor is a valid option that is listed as a Server Proven device for this system. If not, remove the Processor and install a Server Proven one.
2. Verify that matching Processors are installed in the correct Processor sockets according to the service information for this product. Correct any mismatch found.
3. Check IBM support site for an applicable service bulletin or firmware update that applies to this processor error.
4. (Trained Service technician only) Replace the Processor. Inspect Processor socket and replace the system board first if socket is damaged

- **I.1800B [I.1800B] A cache size mismatch has been detected for one or more processor packages.**

**Explanation:** Processors have one or more cache levels with mismatched size

**Severity**
Error

**User Response**
Complete the following steps:

1. Verify that matching processors are installed in the correct processor sockets according to the service information for this product. Correct any mismatch found.
2. Check IBM support site for an applicable service bulletin or firmware update that applies to this Processor error.
3. (Trained Service technician only) Replace the system board.

- **I.1800C [I.1800C] A cache type mismatch has been detected for one or more processor packages.**

**Explanation:** Processors have one or more cache levels with mismatched type

**Severity**
Error

**User Response**
Complete the following steps:

1. Verify that matching Processors are installed in the correct Processor sockets according to the service information for this product.
2. Check IBM support site for an applicable service bulletin or firmware update that applies to this Processor error.
3. (Trained Service technician only) Replace the system board.

- **I.1800D [I.1800D] A cache associativity mismatch has been detected for one or more processor packages.**

**Explanation:** Processors have one or more cache levels with mismatched associativity

**Severity**
Error

**User Response**
Complete the following steps:

1. Verify that matching Processors are installed in the correct Processor sockets according to the service information for this product.
2. Check IBM support site for an applicable service bulletin or firmware update that applies to this Processor error.
3. (Trained Service technician only) Replace the system board.

- **I.1800E [I.1800E] A processor model mismatch has been detected for one or more processor packages.**

**Explanation:** Processors have mismatched Model Number

**Severity**
Error

**User Response**
Complete the following steps:

1. Verify that matching Processors are installed in the correct Processor sockets according to the service information for this product.
2. Check IBM support site for an applicable service bulletin or firmware update that applies to this Processor error.
3. (Trained Service technician only) Replace the system board.

- **I.1800F [I.1800F] A processor family mismatch has been detected for one or more processor packages.**

**Explanation:** Processors have mismatched Family

**Severity**
Error

**User Response**
Complete the following steps:

1. Verify that matching Processors are installed in the correct Processor sockets according to the service information for this product
2. Check IBM support site for an applicable service bulletin or firmware update that applies to this Processor error.
3. (Trained Service technician only) Replace the system board.

- **I.18010 [I.18010] A processor stepping mismatch has been detected for one or more processor packages.**

**Explanation:** Processors of the same model have mismatched Stepping ID

**Severity**
Error

**User Response**

Complete the following steps:

1. Verify that matching Processors are installed in the correct Processor sockets according to the service information for this product.
2. Check IBM support site for an applicable service bulletin or firmware update that applies to this Processor error.
3. (Trained Service technician only) Replace the system board.

- **I.2018002 [I.2018002] The device found at Bus % Device % Function % could not be configured due to resource constraints. The Vendor ID for the device is % and the Device ID is %.**

  **Explanation:** OUT_OF_RESOURCES (PCI Option ROM)

  **Severity**

  Info

  **User Response**

  Complete the following steps:

  1. If this PCIe device and/or any attached cables were recently installed, moved, serviced or upgraded, reseat adapter and any attached cables.
  2. Check IBM support site for any applicable service bulletin or UEFI or adapter firmware update that applies to this error. NOTE: It may be necessary to disable unused option ROMs from UEFI F1 setup or ASU or using adapter manufacturer utilities so that adapter firmware can be updated.
  3. Move card to a different slot. If slot not available or error re-occurs, replace adapter.
  4. (Trained Service technician only) If adapter was moved to a different slot and error did not re-occur, verify that this is not a system limitation and then replace the system board. Also, if this is not the initial installation and the error persists after adapter replacement, replace system board.

- **I.2018003 [I.2018003] A bad option ROM checksum was detected for the device found at Bus % Device % Function %. The Vendor ID for the device is % and the Device ID is %.**

  **Explanation:** ROM CHECKSUM ERROR

  **Severity**

  Error

  **User Response**

  Complete the following steps:

  1. If this PCIe device and/or any attached cables were recently installed, moved, serviced or upgraded, reseat adapter and any attached cables.
  2. Move adapter to a different system slot, if available.
  3. Check IBM support site for any applicable service bulletin or UEFI or adapter firmware update that applies to this error. NOTE: It may be necessary to configure slot to Gen1 or to use special utility software so that adapter firmware can be upgraded. Gen1/Gen2 settings can be configured via F1 Setup -> System Settings -> Devices and I/O Ports -> PCIe Gen1/Gen2/Gen3 Speed Selection, or the ASU Utility.
  4. Replace adapter.

- **I.3048005 [I.3048005] UEFI has booted from the backup flash bank.**

  **Explanation:** Booting Backup UEFI Image

  **Severity**
  Info

  **User Response**
  Complete the following steps:

  1. Refer to service information for this product section on UEFI Recovery to return system to primary bank.

- **I.3808004 [I.3808004] The IMM System Event log (SEL) is full.**

  **Explanation:** IPMI System Event Log is Full

  **Severity**
  Info

  **User Response**
  Complete the following steps:

  1. Use IMM Web Interface to clear event log.
  2. If IMM communication is unavailable, use F1 Setup to access System Event Logs Menu and Choose Clear IMM System Event Log and Restart Server.

- **I.3818001 [I.3818001] The firmware image capsule signature for the currently booted flash bank is invalid.**

  **Explanation:** Current Bank CRTM Capsule Update Signature Invalid

  **Severity**
  Info

  **User Response**
  Complete the following steps:

  1. Reboot system. Will come up on backup UEFI image. Reflash the primary UEFI image.
  2. If error does not persist no additional recovery action is required.
  3. If error persists, or boot is unsuccessful, (Trained service technician only) Replace the system board.

- **I.3818002 [I.3818002] The firmware image capsule signature for the non-booted flash bank is invalid.**

  **Explanation:** Opposite Bank CRTM Capsule Update Signature Invalid

  **Severity**
  Info

  **User Response**
  Complete the following steps:

  1. Reflash backup UEFI image.

2. If error does not persist no additional recovery action is required.
3. If error persists, or boot is unsuccessful, (Trained service technician only) Replace the system board.

- **I.3818003 [I.3818003] The CRTM flash driver could not lock the secure flash region.**

  **Explanation:** CRTM Could not lock secure flash region

  **Severity**
  Info

  **User Response**
  Complete the following steps:
  1. If system failed to boot successfully, DC cycle system.
  2. If system boots to F1 setup, flash UEFI image and reset bank to primary (if required). If system boots without error, recovery is complete and no additional action is required.
  3. If system fails to boot, or if flash attempt fails, (Trained service technician only) Replace the system board.

- **I.58015 [I.58015] Memory spare copy initiated.**

  **Explanation:** Spare Copy Started

  **Severity**
  Info

  **User Response**
  Complete the following steps:
  1. No user required for this event. This is for informational purposes only.

- **I.580A4 [I.580A4] Memory population change detected.**

  **Explanation:** DIMM Population Change Detected

  **Severity**
  Info

  **User Response**
  Complete the following steps:
  1. Check system event log for uncorrected DIMM failures and replace those DIMMs.

- **I.580A5 [I.580A5] Mirror Fail-over complete. DIMM number % has failed over to to the mirrored copy.**

  **Explanation:** DIMM Mirror Fail-over Detected

  **Severity**
  Info

  **User Response**
  Complete the following steps:

1. Check the system-event log for uncorrected DIMM failures and replace those DIMMs.

- **I.580A6 [I.580A6] Memory spare copy has completed successfully.**

  **Explanation:** Spare Copy Complete

  **Severity**
  Info

  **User Response**
  Complete the following steps:
  1. Check system log for related DIMM failures and replace those DIMMs.

- **S.1100B [S.1100B] CATERR(IERR) has asserted on processor %.**

  **Explanation:** Processor CATERR(IERR) has asserted

  **Severity**
  Error

  **User Response**
  Complete the following steps:
  1. Check IBM support site for an applicable service bulletin or firmware update that applies to this Processor error.
  2. (Trained Service technician only) Replace the Processor.

- **S.1100C [S.1100C] An uncorrectable error has been detected on processor %.**

  **Explanation:** Uncorrectable processor error detected

  **Severity**
  Error

  **User Response**
  Complete the following steps:
  1. Check IBM support site for an applicable service bulletin or firmware update that applies to this error.
  2. Reboot system. If problem persists escalate to the next level of supprt.

- **S.2011001 [S.2011001] An Uncorrected PCIe Error has Occurred at Bus % Device % Function %. The Vendor ID for the device is % and the Device ID is %.**

  **Explanation:** PCI SERR Detected

  **Severity**
  Error

  **User Response**
  Complete the following steps:
  1. If this node and/or any attached cables were recently installed, moved, serviced or upgraded, a. Reseat Adapter and any attached cables. b. Reload Device Driver c. If device is not recognized,

reconfiguring slot to Gen1 or Gen2 may be required. Gen1/Gen2 settings can be configured via F1 Setup -> System Settings -> Devices and I/O Ports -> PCIe Gen1/Gen2/Gen3 Speed Selection, or the ASU Utility.

2. Check IBM support site for an applicable device driver, firmware update, revision of service information for this product or other information that applies to this error. Load new device driver and any required firmware updates.
3. If problem persists, then remove Adapter Card. If system reboots successfully without the adapter, replace that card.
4. (Trained Service technician only) Replace the processor.

- **S.2018001 [S.2018001] An Uncorrected PCIe Error has Occurred at Bus % Device % Function %. The Vendor ID for the device is % and the Device ID is %.**

  **Explanation:** PCIe Uncorrected Error Detected

  **Severity**
  Error

  **User Response**
  Complete the following steps:

  1. If this node and/or any attached cables were recently installed, moved, serviced or upgraded, a. Reseat Adapter and any attached cables. b. Reload Device Driver c. If device is not recognized, reconfiguring slot to Gen1 or Gen2 may be required. Gen1/Gen2 settings can be configured via F1 Setup -> System Settings -> Devices and I/O Ports -> PCIe Gen1/Gen2/Gen3 Speed Selection, or the ASU Utility.
  2. Check IBM support site for an applicable device driver, firmware update, version of service information for this product or other information that applies to this error. Load new device driver and any required firmware updates.
  3. If problem persists, then remove Adapter Card. If system reboots successfully without the adapter, replace that card.
  4. Trained Service technician only) Replace the processor.

- **S.3020007 [S.3020007] A firmware fault has been detected in the UEFI image.**

  **Explanation:** Internal UEFI Firmware Fault Detected, System halted

  **Severity**
  Error

  **User Response**
  Complete the following steps:

  1. Check IBM support site for an applicable service bulletin or firmware update that applies to this error.
  2. Reflash UEFI image.
  3. (Trained service technician only) Replace the system board.

- **S.3028002 [S.3028002] Boot permission timeout detected.**

  **Explanation:** Boot Permission Negotiation Timeout

**Severity**
Error

**User Response**
Complete the following steps:

1. Check CMM/IMM logs for communication errors and resolve.
2. Reseat system
3. If problem persists escalate to the next level of support

- **S.3030007 [S.3030007] A firmware fault has been detected in the UEFI image.**

**Explanation:** Internal UEFI Firmware Fault Detected, System halted

**Severity**
Error

**User Response**
Complete the following steps:

1. Check IBM support site for an applicable service bulletin or firmware update that applies to this error.
2. Reflash UEFI image.
3. (Trained service technician only) Replace the system board.

- **S.3040007 [S.3040007] A firmware fault has been detected in the UEFI image.**

**Explanation:** Internal UEFI Firmware Fault Detected, System halted

**Severity**
Error

**User Response**
Complete the following steps:

1. Check IBM support site for an applicable service bulletin or firmware update that applies to this error.
2. Reflash UEFI image.
3. (Trained service technician only) Replace the system board.

- **S.3050007 [S.3050007] A firmware fault has been detected in the UEFI image.**

**Explanation:** Internal UEFI Firmware Fault Detected, System halted

**Severity**
Error

**User Response**
Complete the following steps:

1. Check IBM support site for an applicable service bulletin or firmware update that applies to this error.
2. Reflash UEFI image.
3. (Trained service technician only) Replace the system board.

- **S.3058004 [S.3058004] A Three Strike boot failure has occurred. The system has booted with default UEFI settings.**

  **Explanation:** POST failure has occurred! System booted with default settings.

  **Severity**
  Error

  **User Response**
  Complete the following steps:

  1. This event resets UEFI to the default settings for the next boot. If successful, user is forced into F1 setup. Original UEFI settings are still present.
  2. If User did not intentionally trigger the reboots, check logs for probable cause.
  3. Undo recent system changes (settings or devices added). If not recent system changes, remove all options then remove CMOS battery for 30 seconds to clear CMOS contents. Verify that the system boots. Then, re-install options one at a time to locate the problem.
  4. Check IBM support site for an applicable service bulletin or firmware update that applies to this error.
  5. Reflash UEFI firmware.
  6. Remove and re-install CMOS battery for 30 seconds to clear CMOS contents
  7. (Trained service technician only) Replace the system board.

- **S.3060007 [S.3060007] A firmware fault has been detected in the UEFI image.**

  **Explanation:** Internal UEFI Firmware Fault Detected, System halted

  **Severity**
  Error

  **User Response**
  Complete the following steps:

  1. Check IBM support site for an applicable service bulletin or firmware update that applies to this error.
  2. Reflash UEFI image.
  3. (Trained service technician only) Replace the system board.

- **S.3070007 [S.3070007] A firmware fault has been detected in the UEFI image.**

  **Explanation:** Internal UEFI Firmware Fault Detected, System halted

  **Severity**
  Error

  **User Response**
  Complete the following steps:

  1. Check IBM support site for an applicable service bulletin or firmware update that applies to this error.
  2. Reflash UEFI image.
  3. (Trained service technician only) Replace the system board.

- **S.3108007 [S.3108007 ] The default system settings have been restored.**

  **Explanation:** System Configuration Restored to Defaults

  **Severity**
  Error

  **User Response**
  Complete the following steps:

  1. Check IBM support site for an applicable service bulletin or firmware update that applies to this error.

- **S.3818004 [S.3818004] The CRTM flash driver could not successfully flash the staging area. A failure occurred.**

  **Explanation:** CRTM Update Failed

  **Severity**
  Error

  **User Response**
  Complete the following steps:

  1. Continue booting sytem. If system does not reset, manually reset the system.
  2. If the error is not reported on the subsequent boot, no additional recovery action is required.
  3. If the error persists, continue booting system and reflash UEFI image.
  4. (Trained service technician only) Replace the system board.

- **S.3818007 [S.3818007] The firmware image capsules for both flash banks could not be verified.**

  **Explanation:** CRTM image capsule could not be verified

  **Severity**
  Error

  **User Response**
  Complete the following steps:

  1. If system failed to boot successfully, DC cycle system.
  2. If system boots to F1 steup, flash UEFI image and reset bank to primary (if required). If system boots without error, recovery is complete and no additional action is required.
  3. If system fails to boot, or if flash attempt fails, (Trained service technician only) Replace the system board.

- **S.51003 [S.51003] An uncorrectable memory error was detected in DIMM slot % on rank %.**

  **Explanation:** [S.51003] An uncorrectable memory error was detected on processor % channel %. The failing DIMM within the channel could not be determined.[S.51003] An uncorrectable memory error has been detected during POST.Fatal Memory Error Occurred

  **Severity**
  Error

**User Response**

Complete the following steps:

1. If the node has recently been installed, moved, serviced, or upgraded, verify that the DIMM is properly seated and visually verify that there is no foreign material in any DIMM connector on that memory channel. If either of these conditions is found, correct and retry with the same DIMM. (Note: Event Log may contain a recent 00580A4 event denoting detected change in DIMM population that could be related to this problem.)
2. If no problem is observed on the DIMM connectors or the problem persists, replace the DIMM identified by LightPath and/or event log entry.
3. If problem re-occurs on the same DIMM connector, replace the other DIMMs on the same memory channel.
4. Check IBM support site for an applicable service bulletin or firmware update that applies to this memory error.
5. (Trained Service technician only) If problem re-occurs on the same DIMM connector, inspect connector for damage. If found, replace system board.
6. (Trained Service technician only) Replace affected Processor.
7. (Trained Service technician only) Replace system board.

- **S.51006 [S.51006] A memory mismatch has been detected. Please verify that the memory configuration is valid.**

  **Explanation:** One or More Mismatched DIMMs Detected

  **Severity**

  Error

  **User Response**

  Complete the following steps:

  1. Could follow an uncorrectable memory error or failed memory test. Check log and service that event first. DIMMs disabled by other errors or actions could cause this event.
  2. Verify that the DIMMs are installed in the correct population sequence, according to the service information for this product.
  3. Disable memory mirroring and sparing. If this action eliminates the mismatch, check IBM Support site for information related to this problem.
  4. Reflash UEFI firmware.
  5. Replace DIMM
  6. (Trained Service technician only) Replace Processor.

- **S.51009 [S.51009] No system memory has been detected.**

  **Explanation:** No Memory Detected

  **Severity**

  Error

  **User Response**

  Complete the following steps:

  1. Make sure that one or more DIMMs are installed in the server.

2. If no memory fault is recorded in the logs and no DIMM connector error LEDs are lit, verify that all DIMM connectors are enabled using the Setup utility or the Advanced Settings Utility (ASU).
3. Re-Install all DIMMs verifying the correct population sequence, according to the service information for this product.
4. (Trained service technician only) Replace the processor.
5. (Trained service technician only) Replace the system board.

- **S.58008 [S.58008] A DIMM has failed the POST memory test.**

  **Explanation:** DIMM Failed Memory Test

  **Severity**
  Error

  **User Response**
  Complete the following steps:

  1. You must AC-cycle the system to re-enable affected DIMM connector or re-enable manually using F1 setup
  2. If the node has been recently installed, serviced, moved, or upgraded, check to ensure that DIMMs are firmly seated and that no foreign material can be seen in the DIMM connector. If either condition is observed, correct and retry with the same DIMM. (Note: Event Log may contain a recent 00580A4 event denoting detected change in DIMM population that could be related to this problem.)
  3. If problem persists, replace the DIMM identified by LightPath and/or event log entry.
  4. If problem re-occurs on the same DIMM connector, swap the other DIMMs on the same memory channel across channels one at a time to a different memory channel or Processor. (check service information for this product/Install guide for population requirements for sparing/paring modes). If problem follows a moved DIMM to a different memory channel, replace that DIMM.
  5. Check IBM support site for an applicable service bulletin or firmware update that applies to this memory error.
  6. (Trained service technician only) If problem stays with the original DIMM connector, re-inspect DIMM connector for foreign material and remove, if found. If connector is damaged, replace system board.
  7. (Trained service technician only) Remove affected Processor and inspect Processor socket pins for damaged or mis-aligned pins. If damage is found, or this is an upgrade Processor, replace system board. If there are multiple Processor's, swap Processor's to move affected Procesor to another Processor socket and retry. If problem follows the affected Processor (or there is only one Processor), replace the affected Processor.
  8. (Trained Service technician only) Replace the system board.

- **S.68005 [S.68005] An error has been detected by the the IIO core logic on Bus %. The Global Fatal Error Status register contains %. The Global Non-Fatal Error Status register contains %. Please check error logs for the presence of additional downstream device error data.**

  **Explanation:** Critical IOH-PCI Error

  **Severity**
  Error

  **User Response**

Complete the following steps:

1. Check log for a separate error for an associated PCIe device and service that error.
2. Check IBM support site for an applicable service bulletin or firmware update for the system or adapter that applies to this error.
3. (Trained Service technician only) Replace the system board.

- **S.680B8 [S.680B8] Internal QPI Link Failure Detected.**

  **Explanation:** Internal QPI Link Failure Detected

  **Severity**
  Error

  **User Response**
  Complete the following steps:

  1. Check IBM support site for an applicable service bulletin or firmware update that applies to this error.
  2. Inspect processor socket for foreign debris or damage. If debris is found remove debris.
  3. If error recurs, or socket damage is found, replace the system board (Trained Service technician only) .
  4. (Trained Service Technician Only) Replace the processor.

- **S.680B9 [S.680B9] External QPI Link Failure Detected.**

  **Explanation:** External QPI Link Failure Detected

  **Severity**
  Error

  **User Response**
  Complete the following steps:

  1. Check IBM support site for an applicable service bulletin or firmware update that applies to this error.
  2. Inspect processor socket for foreign debris or damage. If debris is found remove debris.
  3. If error recurs, or socket damage is found, replace the system board (Trained Service technician only) .

- **W.11004 [W.11004] A processor within the system has failed the BIST.**

  **Explanation:** Processor Self Test Failure Detected

  **Severity**
  Error

  **User Response**
  Complete the following steps:

  1. If the Processor or firmware was just updated, check IBM support site for an applicable service bulletin or firmware update that applies to this Processor error.

2. (Trained service technician only) If there are multiple Processor's, swap Processor's to move affected Processor to another Processor socket and retry. If problem follows the affected Processor, or this is a single Processor system, replace the Processor. Inspect Processor socket on each Processor removal and replace system board first if damaged or mis-aligned pins are found.
3. (Trained Service technician only) Replace the system board.

- **W.3048006 [W.3048006] UEFI has booted from the backup flash bank due to an Automatic Boot Recovery (ABR) event.**

  **Explanation:** Automated Boot Recovery, Booting Backup UEFI Image

  **Severity**
  Warning

  **User Response**
  Complete the following steps:
  1. Check IBM support site for an applicable service bulletin or firmware update that applies to this error.
  2. Reflash Primary UEFI image. Refer to UEFI Recovery section of service information for this product.
  3. (Trained service technician only) Replace the system board.

- **W.305000A [W.305000A] An invalid date and time have been detected.**

  **Explanation:** RTC Date and Time Incorrect

  **Severity**
  Warning

  **User Response**
  Complete the following steps:
  1. Check IMM/chassis event log. This event should immediately precede 0068002 error. Service that event or any other battery related errors.
  2. Use F1 Setup to reset date and time. If problem returns after a system reset, replace CMOS battery.
  3. If problem persists then check IBM support site for an applicable service bulletin or firmware update that applies to this error.
  4. Trained Service technician only) Replace the system board.

- **W.3058009 [W.3058009] DRIVER HEALTH PROTOCOL: Missing Configuraiton. Requires Change Settings From F1.**

  **Explanation:** DRIVER HEALTH PROTOCOL: Missing Configuration. Requires Change Settings From F1

  **Severity**
  Warning

  **User Response**
  Complete the following steps:

1. Go to System Settings > Settings > Driver Health Status List and find a driver/controller reporting Configuration Required status.
2. Search for the driver menu from System Settings and change settings appropriately.
3. Save settings and restart system.

- **W.305800A [W.305800A] DRIVER HEALTH PROTOCOL: Reports 'Failed' Status Controller.**

  **Explanation:** DRIVER HEALTH PROTOCOL: Reports 'Failed' Status Controller

  **Severity**
  Warning

  **User Response**
  Complete the following steps:
  1. Reboot the system.
  2. If problem persists, switch to backup UEFI or reflash current UEFI image.
  3. (Trained Service Technician Only) Replace system board.

- **W.305800B [W.305800B] DRIVER HEALTH PROTOCOL: Reports 'Reboot' Required Controller.**

  **Explanation:** DRIVER HEALTH PROTOCOL: Reports 'Reboot' Required Controller

  **Severity**
  Warning

  **User Response**
  Complete the following steps:
  1. No action required – system will reboot at the end of POST.
  2. If problem persists, switch to backup UEFI or reflash current UEFI image.
  3. (Trained Service Technician Only) Replace system board.

- **W.305800C [W.305800C] DRIVER HEALTH PROTOCOL: Reports 'System Shutdown' Required Controller.**

  **Explanation:** DRIVER HEALTH PROTOCOL: Reports 'System Shutdown' Required Controller

  **Severity**
  Warning

  **User Response**
  Complete the following steps:
  1. Reboot the system.
  2. If problem persists, switch to backup UEFI or reflash current UEFI image.
  3. (Trained Service Technician Only) Replace system board.

- **W.305800D [W.305800D] DRIVER HEALTH PROTOCOL: Disconnect Controller Failed. Requires 'Reboot'.**

**Explanation:** DRIVER HEALTH PROTOCOL: Disconnect Controller Failed. Requires 'Reboot'

**Severity**
Warning

**User Response**
Complete the following steps:

1. Reboot the system to reconnect the controller.
2. If problem persists, switch to backup UEFI or reflash current UEFI image.
3. (Trained Service Technician Only) Replace system board.

- **W.305800E [W.305800E] DRIVER HEALTH PROTOCOL: Reports Invalid Health Status Driver.**

**Explanation:** DRIVER HEALTH PROTOCOL: Reports Invalid Health Status Driver

**Severity**
Warning

**User Response**
Complete the following steps:

1. Reboot the system.
2. If problem persists, switch to backup UEFI or reflash current UEFI image.
3. (Trained Service Technician Only) Replace system board.

- **W.3108002 [W.305800E] DRIVER HEALTH PROTOCOL: Reports Invalid Health Status Driver.**

**Explanation:** GPT (GUID Partition Table) corruption

**Severity**
Warning

**User Response**
Complete the following steps:

1. F1 Setup -> System Settings -> Recovery -> Disk GPT Recovery, set to "Automatic"; Save Settings, then restart system.
2. Boot to F1 setup, system will automatically try to recover the GPT during the POST, restart the system.
3. If problem persists, re-format the LUN or disk and re-install the OS.

- **W.3808000 [W.3808000] An IMM communication failure has occurred.**

**Explanation:** IMM Communication Failure

**Severity**
Warning

**User Response**
Complete the following steps:

1. Reset the IMM from the CMM.
2. Use CMM to remove AUX power from the node. This will reboot the entire node.

3. Check IBM support site for an applicable service bulletin or firmware update that applies to this error.
4. Reflash UEFI Firmware.
5. (Trained service technician only) Replace the system board.

- **W.3808002 [W.3808002] An error occurred while saving UEFI settings to the IMM.**

  **Explanation:** Error Updating System Configuration to IMM

  **Severity**
  Warning

  **User Response**
  Complete the following steps:
  1. Use F1 Setup, Verify Settings and Save Settings to recover settings.
  2. Reset the IMM from the CMM.
  3. Use CMM to remove AUX power from the node. This will reboot the entire node.
  4. Check IBM support site for an applicable service bulletin or firmware update that applies to this error.
  5. Reflash IMM Firmware.
  6. Remove and re-install CMOS battery for 30 seconds to clear CMOS contents.
  7. Trained Service technician only) Replace the system board.

- **W.3808003 .[W.3808003] Unable to retrieve the system configuration from the IMM.**

  **Explanation:** Error Retrieving System Configuration from IMM

  **Severity**
  Warning

  **User Response**
  Complete the following steps:
  1. Use F1 Setup, Verify Settings and Save Settings to recover settings.
  2. Reset the IMM from the CMM.
  3. Use CMM to remove AUX power from the node. This will reboot the entire node.
  4. Check IBM support site for an applicable service bulletin or firmware update that applies to this error.
  5. Reflash IMM Firmware.
  6. Remove and re-install CMOS battery for 30 seconds to clear CMOS contents.
  7. Trained Service technician only) Replace the system board.

- **W.3818005 [W.3818005] The CRTM flash driver could not successfully flash the staging area. The update was aborted**

  **Explanation:** CRTM Update Aborted

  **Severity**

Warning

**User Response**
Complete the following steps:

1. Continue booting system. If system does not reset, manually reset the system.
2. If the error is not reported on the subsequent boot, no additional recovery action is required.
3. If the event persists, continue booting system and reflash UEFI image.
4. (Trained service technician only) Replace the system board.

- **W.3938002 [W.3938002] A boot configuration error has been detected.**

**Explanation:** Boot Configuration Error

**Severity**
Warning

**User Response**
Complete the following steps:

1. F1 Setup -> Save Settings
2. Retry OOB config update

- **W.50001 [W.50001] A DIMM has been disabled due to an error detected during POST.**

**Explanation:** DIMM Disabled

**Severity**
Info

**User Response**
Complete the following steps:

1. If the DIMM was disabled because of a memory fault, follow the procedure for that event.
2. If no memory fault is recorded in the logs and no DIMM connector error LEDs are lit, re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).
3. If problem persists, Power cycle the node from management console.
4. Reset IMM to default settings.
5. Reset UEFI to default settings.
6. Reflash IMM and UEFI firmware.
7. (Trained Service technician only) Replace system board.

- **W.58001 [W.58001] The PFA Threshold limit (correctable error logging limit) has been exceeded on DIMM number % at address %. MC5 Status contains % and MC5 Misc contains %.**

**Explanation:** DIMM PFA Threshold Exceeded

**Severity**
Error

**User Response**
Complete the following steps:

1. If the node has recently been installed, moved, serviced, or upgraded, verify that the DIMM is properly seated and visually verify that there is no foreign material in any DIMM connector on that memory channel. If either of these conditions is found, correct and retry with the same DIMM. (Note: Event Log may contain a recent 00580A4 event denoting detected change in DIMM population that could be related to this problem.)
2. Check IBM support site for an applicable firmware update that applies to this memory error. The release notes will list the known problems the update addresses.
3. If the previous steps do not resolve the problem, at the next maintenance opportunity, replace the affected DIMM (as indicated by LightPath and/or failure log entry).
4. If PFA re-occurs on the same DIMM connector, swap the other DIMMs on the same memory channel one at a time to a different memory channel or Processor. (check service information for this product/Install guide for population requirements for sparing/paring modes). If PFA follows a moved DIMM to any DIMM connector on the different memory channel, replace the moved DIMM.
5. Check IBM support site for an applicable Service Bulletins (Service bulletins) that applies to this memory error. (Link to IBM support service bulletins)
6. (Trained service technician only) If problem continues to re-occur on the same DIMM connector, inspect DIMM connector for foreign material and remove, if found. If connector is damaged, replace system board.
7. (Trained service technician only) Remove affected Processor and inspect Processor socket pins for damaged or mis-aligned pins. If damage is found or Processor is an upgrade part, replace system board.
8. (Trained Service technician only) Replace affected processor.
9. (Trained Service technician only) Replace system board.

- **W.58007 [W.58007] Invalid memory configuration (Unsupported DIMM Population) detected. Please verify memory configuration is valid.**

  **Explanation:** Unsupported DIMM Population

  **Severity**
  Error

  **User Response**
  Complete the following steps:

  1. Could follow an uncorrectable memory error or failed memory test. Check log and service that event first. DIMMs disabled by other errors or actions could cause this event.
  2. Ensure that the DIMM connectors are populated according to the guidelines in the service information for this product.

- **W.580A1 [W.580A1] Invalid memory configuration for Mirror Mode. Please correct memory configuration.**

  **Explanation:** Unsupported DIMM Population for Mirror Mode

  **Severity**
  Error

  **User Response**
  Complete the following steps:

  1. If a DIMM connector error LED is lit, resolve the failure.

2. Make sure that the DIMM connectors are correctly populated for mirroring mode, according to the service information for this product.

- **W.580A2 [W.580A2] Invalid memory configuration for Sparing Mode. Please correct memory configuration.**

  **Explanation:** Unsupported DIMM Population for Spare Mode

  **Severity**
  Error

  **User Response**
  Complete the following steps:

  1. Make sure that the DIMM connectors are correctly populated for sparing mode, according to the service information for this product.

- **W.68002 [W.68002] A CMOS battery error has been detected**

  **Explanation:** CMOS Battery Fault

  **Severity**
  Error

  **User Response**
  Complete the following steps:

  1. If the system was recently Installed, Moved, or Serviced, makesure the batter is properly seated.
  2. Check IBM support site for an applicable service bulletin or firmware update that applies to this error.
  3. Replace CMOS Battery
  4. (Trained Service technician only) Replace the system board.

# Appendix C. DSA diagnostic test results

After running the DSA diagnostic tests, use this information to resolve any issues that were found.

## DSA Broadcom network test results

The following messages can result when you run the Broadcom network test.

## Test results for the DSA Broadcom network test

The following messages can result when you run the DSA Broadcom network test.

- **405-000-000 : BRCM:TestControlRegisters Test Passed**

  The test passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **405-001-000 : BRCM:TestMIIRegisters Test Passed**

  The test passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

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- **405-002-000 : BRCM:TestEEPROM Test Passed**

  The test passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **405-003-000 : BRCM:TestInternalMemory Test Passed**

  The test passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **405-004-000 : BRCM:TestInterrupt Test Passed**

  The test passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **405-005-000 : BRCM:TestLoopbackMAC Test Passed**

  The test passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **405-006-000 : BRCM:TestLoopbackPhysical Test Passed**

  The test passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **405-007-000 : BRCM:TestLEDs Test Passed**

  The test passed.

  **Recoverable**
  No

**Severity**
Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **405-800-000 : BRCM:TestControlRegisters Test Aborted**

The control registers test was canceled.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **405-801-000 : BRCM:TestMIIRegisters Test Aborted**

The MII register test was canceled.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **405-802-000 : BRCM:TestEEPROM Test Aborted**

  The EEPROM test was canceled.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **405-803-000 : BRCM:TestInternalMemory Test Aborted**

  The internal memory test was canceled.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **405-804-000 : BRCM:TestInterrupt Test Aborted**

  The interrupt test was canceled.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **405-805-000 : BRCM:TestLoopbackMAC Test Aborted**

  Loopback testing at the MAC layer was canceled.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **405-806-000 : BRCM:TestLoopbackPhysical Test Aborted**

  Loopback testing at the physical layer was canceled.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **405-807-000 : BRCM:TestLEDs Test Aborted**

  Verification of status LEDs was canceled.

  **Recoverable**
  No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **405-900-000 : BRCM:TestControlRegisters Test Failed**

A failure was detected while testing internal MAC registers

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **405-901-000 : BRCM:TestMIIRegisters Test Failed**

A failure was detected while testing internal PHY registers.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **405-902-000 : BRCM:TestEEPROM Test Failed**

A failure was detected while testing non-volatile RAM.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **405-903-000 : BRCM:TestInternalMemory Test Failed**

A failure was detected while testing internal memory.

**Recoverable**
No

**Severity**

Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **405-904-000 : BRCM:TestInterrupt Test Failed**

A failure was detected while testing interrupts.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **405-905-000 : BRCM:TestLoopbackMAC Test Failed**

BRCM:TestLoopbackMAC Test Failed.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **405-906-000 : BRCM:TestLoopbackPhysical Test Failed**

A failure was detected during the loopback test at the physical layer.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **405-907-000 : BRCM:TestLEDs Test Failed**

  A failure was detected while verifying operation of the status LEDs.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
  2. Rerun the test.
  3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

## DSA Brocade test results

The following messages can result when you run the Brocade test.

## Test results for the DSA Brocade test

The following messages can result when you run the DSA Brocade test.

- **218-000-000 : Brocade:MemoryTest Passed**

  The test passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **218-001-000 : Brocade:ExternalLoopbackTest Passed**

  The test passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **218-002-000 : Brocade:SerdesLoopbackTest Passed**

  The test passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **218-003-000 : Brocade:PCILoopbackTest Passed**

  The test passed.

  **Recoverable**
  No

**Severity**
Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **218-004-000 : Brocade:ExternalEthLoopbackTest Passed**

The test passed.

**Recoverable**
No

**Severity**
Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **218-005-000 : Brocade:SerdesEthLoopbackTest Passed**

The test passed.

**Recoverable**
No

**Severity**
Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **218-006-000 : Brocade:InternalLoopbackTest Passed**

  The test passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **218-800-000 : Brocade:MemoryTest Aborted**

  The test was canceled.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **218-801-000 : Brocade:ExternalLoopbackTest Aborted**

  The test was canceled.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **218-802-000 : Brocade:SerdesLoopbackTest Aborted**

  The test was canceled.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **218-803-000 : Brocade:PCILoopbackTest Aborted**

  The test was canceled.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **218-804-000 : Brocade:ExternalEthLoopbackTest Aborted**

  The test was canceled.

  **Recoverable**
  No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **218-805-000 : Brocade:SerdesEthLoopbackTest Aborted**

The test was canceled.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **218-806-000 : Brocade:InternalLoopbackTest Aborted**

The test was canceled.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **218-900-000 : Brocade:MemoryTest Failed**

  A failure was detected while testing the adapter memory.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Rerun the test.
  2. Verify whether the firmware is at proper level.
  3. Rerun the test.
  4. If the problem remains, contact your IBM technical-support representative.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **218-901-000 : Brocade:ExternalLoopbackTest Failed**

  A failure was detected during the Loopback test.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Check cable connections.
  2. Rerun the test.
  3. Verify whether the firmware is at proper level.
  4. Rerun the test.
  5. If the problem remains, contact your IBM technical-support representative.

  **Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **218-902-000 : Brocade:SerdesLoopbackTest Failed**

  A failure was detected during the Loopback test.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Rerun the test.
  2. Verify whether the firmware is at proper level.
  3. Rerun the test.
  4. If the problem remains, contact your IBM technical-support representative.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **218-903-000 : Brocade:PCILoopbackTest Failed**

  A failure was detected during the Loopback test.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Rerun the test.
  2. Verify whether the firmware is at proper level.
  3. Rerun the test.
  4. If the problem remains, contact your IBM technical-support representative.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **218-904-000 : Brocade:ExternalEthLoopbackTest Failed**

  A failure was detected during the Loopback test.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Check or replace SFP/cable.
  2. Rerun the test.
  3. Verify whether the firmware is at proper level.
  4. Rerun the test.
  5. If the problem remains, contact your IBM technical-support representative.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **218-905-000 : Brocade:SerdesEthLoopbackTest Failed**

  A failure was detected during the Loopback test.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Rerun the test.

2. Verify whether the firmware is at proper level.
3. Rerun the test.
4. If the problem remains, contact your IBM technical-support representative.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **218-906-000 : Brocade:InternalLoopbackTest Failed**

  A failure was detected during the Loopback test.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Rerun the test.
  2. Verify whether the firmware is at proper level.
  3. Rerun the test.
  4. If the problem remains, contact your IBM technical-support representative.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

## DSA checkpoint panel test results

The following messages can result when you run the checkpoint panel test.

## Test results for the DSA checkpoint panel test

The following messages can result when you run the DSA checkpoint panel test.

- **180-000-000 : Check-point Panel Test Passed**

  Check-point Panel Test Passed.

**Recoverable**
No

**Severity**
Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **180-801-000 : Check-point Panel Test Aborted**

Check-point Panel Test Aborted. BMC is unable to verify that the operator information panel cable is connected.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Inspect and reseat operator information panel cable at both ends.
2. Verify that the Baseboard Management Controller (BMC) is working.
3. Run the test again.
4. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **180-901-000 : Check-point Panel Test Failed**

Check-point Panel Test Failed. Operator reported incorrect display.

**Recoverable**
No

**Severity**

Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Check the operator information panel cabling for loose or broken connections at both ends or damage to the cable.
2. Replace the information panel cable if damage is present.
3. Run the test again.
4. Replace the operator information panel assembly.
5. Run the test again.
6. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

## DSA CPU stress test results

The following messages can result when you run the CPU stress test.

## Test results for the DSA CPU stress test

The following messages can result when you run the DSA CPU stress test.

- **089-000-000 : CPU Stress Test Passed**

  CPU Stress Test Passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA

- Latest level of BMC/IMM

- **089-801-000 : CPU Stress Test Aborted**

  CPU Stress Test Aborted. Internal Program Error.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Turn off and restart the system.
  2. Make sure that the DSA Diagnostic code is at the latest level.
  3. Run the test again.
  4. Check system firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component. The latest level firmware for this component can be found in reference to this system type at the IBM Support website.
  5. Run the test again.
  6. If the system has stopped responding, turn off and restart the system and then run the test again.
  7. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **089-802-000 : CPU Stress Test Aborted**

  CPU Stress Test Aborted. System resource unavailability error.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**

Complete the following steps:

1. Turn off and restart the system.
2. Make sure that the DSA Diagnostic code is at the latest level.
3. Run the test again.
4. Check system firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
5. Run the test again.
6. If the system has stopped responding, turn off and restart the system and then run the test again.
7. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **089-803-000 : CPU Stress Test Aborted**

CPU Stress Test Aborted. Memory size is insufficient to run the test. At least 1GB is required.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **089-804-000 : CPU Stress Test Aborted**

CPU Stress Test Aborted. User pressed Ctrl-C.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **089-901-000 : CPU Stress Test Failed**

  CPU Stress Test Failed.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. If the system has stopped responding, turn off and restart the system and then run the test again.
  2. Make sure that the DSA Diagnostic code is at the latest level.
  3. Run the test again.
  4. Check system firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
  5. Run the test again.
  6. If the system has stopped responding, turn off and restart the system and then run the test again.
  7. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

## DSA Emulex adapter test results

The following messages can result when you run the Emulex adapter test.

## Test results for the DSA Emulex adapter test

The following messages can result when you run the DSA Emulex adapter test.

- **516-000-000 : ELXUCNA: NIC MAC LoopBackTest Passed**

The test passed.

**Recoverable**
No

**Severity**
Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **516-001-000 : ELXUCNA: NIC PHY LoopBackTest Passed**

The test passed.

**Recoverable**
No

**Severity**
Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **516-002-000 : ELXUCNA: ELXUCNA: NIC LED(Beacon)Test Passed**

The test passed.

**Recoverable**
No

**Severity**
Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **516-800-000 : ELXUCNA: NIC MAC LoopBackTest Aborted**

  Loopback testing at the MAC layer was canceled.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **516-801-000 : ELXUCNA: NIC PHY LoopBackTest Aborted**

  Loopback testing at the physical layer was canceled.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **516-802-000 : ELXUCNA: ELXUCNA: NIC LED(Beacon)Test Aborted**

  Verification of status LEDs was canceled.

  **Recoverable**
  No

  **Severity**
  Warning

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **516-900-000 : ELXUCNA: NIC MAC LoopBackTest Failed**

A failure was detected during the loopback test at the MAC layer.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **516-901-000 : ELXUCNA: NIC PHY LoopBackTest Failed**

A failure was detected during the loopback test at the physical layer.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**

Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **516-902-000 : ELXUCNA: ELXUCNA: NIC LED(Beacon)Test Failed**

A failure was detected while verifying operation of the status LEDs.

**Recoverable**

No

**Severity**

Error

**Serviceable**

Yes

**Automatically notify support**

No

**User Response**

Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

## DSA EXA port ping test results

The following messages can result when you run the EXA port ping test.

## Test results for the DSA EXA port ping test

The following messages can result when you run the DSA EXA port ping test.

- **401-000-000 : EXA Port Ping Test Passed**

  EXA Port Ping Test Passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **401-801-000 : EXA Port Ping Test Aborted**

  EXA Port Ping Test Aborted. Unable to get device base address.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Remove power cables, wait for 45 seconds, reconnect and rerun the test.
  2. Make sure that the scalability cable connections are as per specification.
  3. Make sure that DSA and BIOS/uEFI are at the latest level.
  4. If the problem remains, contact your technical-service representative.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **401-802-000 : EXA Port Ping Test Aborted**

  EXA Port Ping Test Aborted. Port connections may not be correct.

  **Recoverable**

No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Remove power cables, wait for 45 seconds, reconnect and rerun the test.
2. Make sure that the scalability cable connections are as per specification.
3. Make sure that DSA and BIOS/uEFI are at the latest level.
4. If the problem remains, contact your technical-service representative.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **401-901-001 : EXA Port Ping Test Failed**

EXA Port Ping Test Failed.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Remove power cables, wait for 45 seconds, reconnect and rerun the test.
2. Make sure that the scalability cable connections are as per specification.
3. Check scalability cables for loose connections.
4. Replace the scalability cable(s) for specified port(s).
5. If the problem remains, contact your technical-service representative.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

## DSA hard drive test results

The following messages can result when you run the hard drive test.

## Test results for the DSA hard drive test

The following messages can result when you run the DSA hard drive test.

- **217-000-000 : HDD Test Passed**

  HDD Stress Test Passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **217-800-000 : HDD Test Aborted**

  HDD Test Aborted. The test was canceled.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Check cable connections.
  2. Rerun the test.
  3. Verify that Hard drive supports self test and self test logging.
  4. If the problem remains, contact your technical-support representative.

  **Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **217-900-000 : HDD Test Failed**

  HDD Test Failed. The hard drive self-test detected a failure.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Check cable connections.
  2. Rerun the test.
  3. Verify the firmware is at the latest level.
  4. Rerun the test.
  5. If the problem remains, contact your technical-support representative.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

## DSA Intel network test results

The following messages can result when you run the Intel network test.

## Test results for the DSA Intel network test

The following messages can result when you run the DSA Intel network test.

- **406-000-000 : IANet:Registers Test Passed**

  The test passed.

  **Recoverable**
  No

  **Severity**
  Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **406-001-000 : IANet:EEPROM Test Passed**

The test passed.

**Recoverable**
No

**Severity**
Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **406-002-000 : IANet:FIFO Test Passed**

The test passed.

**Recoverable**
No

**Severity**
Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **406-003-000 : IANet:Interrupts Test Passed**

The test passed.

**Recoverable**
No

**Severity**
Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **406-004-000 : IANet:Loopback Test Passed**

The test passed.

**Recoverable**
No

**Severity**
Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **406-800-000 : IANet:Registers Test Aborted**

Registers test was canceled.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **406-801-000 : IANet:EEPROM Test Aborted**

  EEPROM test was canceled.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **406-802-000 : IANet:FIFO Test Aborted**

  FIFO test was canceled.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **406-803-000 : IANet:Interrupts Test Aborted**

  Interrupt test was canceled.

  **Recoverable**
  No

  **Severity**
  Warning

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **406-804-000 : IANet:Loopback Test Aborted**

Loopback test was canceled.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **406-900-000 : IANet:Registers Test Failed**

A failure was detected during the Registers test.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **406-901-000 : IANet:EEPROM Test Failed**

A failure was detected during the EEPROM test.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **406-902-000 : IANet:FIFO Test Failed**

A failure was detected during the FIFO test.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.

2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **406-903-000 : IANet:Interrupts Test Failed**

  A failure was detected during the Interrupt test.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
  2. Rerun the test.
  3. Check interrupt assignments in the PCI Hardware section of the DSA Diagnostic Log. If the ethernet device is sharing interrupts, if possible modify the interrupt assignments using F1 Setup to assign a unique interrupt to the device.
  4. Rerun the test.
  5. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **406-904-000 : IANet:Loopback Test Failed**

  A failure was detected during the Loopback test.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**

Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Check the Ethernet cable for damage and ensure correct cable type and attachment.
2. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
3. Rerun the test.
4. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

## DSA LSI hard drive test results

The following messages can result when you run the LSI hard drive test.

## Test results for the DSA LSI hard drive test

The following messages can result when you run the DSA LSI hard drive test.

- **407-000-000 : LSIESG:DiskDefaultDiagnostic Test Passed**

  The test passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **407-800-000 : LSIESG:DiskDefaultDiagnostic Test Aborted**

The test was canceled.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **407-900-000 : LSIESG:DiskDefaultDiagnostic Test Failed**

The hard drive self-test detected a failure.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Check cable connections.
2. Rerun the test.
3. Verify whether the firmware is at the latest level.
4. Rerun the test.
5. If the problem remains, contact your IBM technical-support representative.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

## DSA Mellanox adapter test results

The following messages can result when you run the Mellanox adapter test.

## Test results for the DSA Mellanox adapter test

The following messages can result when you run the DSA Mellanox adapter test.

- **408-000-000 : MLNX:MLNX_DiagnosticTestEthernetPort Test Passed**

  Port Test Passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **408-001-000 : MLNX:MLNX_DiagnosticTestIBPort Test Passed**

  Port Test Passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **408-800-000 : MLNX:MLNX_DiagnosticTestEthernetPort Test Aborted**

  Port Test was canceled.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**

No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **408-801-000 : MLNX:MLNX_DiagnosticTestIBPort Test Aborted**

Port Test was canceled.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **408-900-000 : MLNX:MLNX_DiagnosticTestEthernetPort Test Failed**

Port Test Failed.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Make sure that the physical link of the port under test in the active state.
2. If these condition was met but the test keeps failing the port's adapter might be faulty.
3. Try replacing the adapter and repeating the test.

**Related links**

- IBM Support website

- Latest level of DSA
- Latest level of BMC/IMM

- **408-901-000 : MLNX:MLNX_DiagnosticTestIBPort Test Failed**

  Port Test Failed.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Make sure that the physical link of the port under test in the active state and a subnet manager running on the fabric to which the port is attached.
  2. If these condition was met but the test keeps failing the port's adapter might be faulty.
  3. Try replacing the adapter and repeating the test.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

## DSA memory isolation test results

The following messages can result when you run the memory isolation test.

## Test results for the DSA memory isolation test

The following messages can result when you run the DSA memory isolation test.

- **201-000-000 : Standalone Memory Test Passed**

  Quick/Full Memory Test All CPUs Passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-000-001 : Standalone Memory Test Passed**

Quick/Full Memory Test CPU 1 Passed.

**Recoverable**
No

**Severity**
Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-000-002 : Standalone Memory Test Passed**

Quick/Full Memory Test CPU 2 Passed.

**Recoverable**
No

**Severity**
Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-000-003 : Standalone Memory Test Passed**

Quick/Full Memory Test CPU 3 Passed.

**Recoverable**
No

**Severity**
Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-000-004 : Standalone Memory Test Passed**

Quick/Full Memory Test CPU 4 Passed.

**Recoverable**
No

**Severity**
Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-811-000 : Standalone Memory Test Aborted**

Unable to Locate SMBIOS key "_SM_".

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.

2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-811-001 : Standalone Memory Test Aborted**

Unable to Locate SMBIOS key "_SM_".

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-811-002 : Standalone Memory Test Aborted**

Unable to Locate SMBIOS key "_SM_".

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**

No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-811-003 : Standalone Memory Test Aborted**

Unable to Locate SMBIOS key "_SM_".

**Recoverable**

No

**Severity**

Warning

**Serviceable**

No

**Automatically notify support**

No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-812-000 : Standalone Memory Test Aborted**

Memory test is not supported for this system.

**Recoverable**

No

**Severity**

Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-812-001 : Standalone Memory Test Aborted**

Memory test is not supported for this system.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-812-002 : Standalone Memory Test Aborted**

Memory test is not supported for this system.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-812-003 : Standalone Memory Test Aborted**

Memory test is not supported for this system.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-813-000 : Standalone Memory Test Aborted**

  Chipset Error: Can not turn OFF ECC error reporting in CPU.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-813-001 : Standalone Memory Test Aborted**

  Chipset Error: Can not turn OFF ECC error reporting in CPU.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-813-002 : Standalone Memory Test Aborted**

  Chipset Error: Can not turn OFF ECC error reporting in CPU.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-813-003 : Standalone Memory Test Aborted**

  Chipset Error: Can not turn OFF ECC error reporting in CPU.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.

3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-814-000 : Standalone Memory Test Aborted**

Chipset Error: Can not disable Scubbing feature for CPU.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-814-001 : Standalone Memory Test Aborted**

Chipset Error: Can not disable Scubbing feature for CPU.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-814-002 : Standalone Memory Test Aborted**

Chipset Error: Can not disable Scubbing feature for CPU.

**Recoverable**

No

**Severity**

Warning

**Serviceable**

No

**Automatically notify support**

No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-814-003 : Standalone Memory Test Aborted**

Chipset Error: Can not disable Scubbing feature for CPU.

**Recoverable**

No

**Severity**

Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-815-000 : Standalone Memory Test Aborted**

Program Error with Quick Memory Menu Option Selection.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-815-001 : Standalone Memory Test Aborted**

Program Error with Quick Memory Menu Option Selection.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-815-002 : Standalone Memory Test Aborted**

Program Error with Quick Memory Menu Option Selection.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-815-003 : Standalone Memory Test Aborted**

  Program Error with Quick Memory Menu Option Selection.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-816-000 : Standalone Memory Test Aborted**

  Program Error with Full Memory Menu Option Selection.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-816-001 : Standalone Memory Test Aborted**

  Program Error with Full Memory Menu Option Selection.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-816-002 : Standalone Memory Test Aborted**

  Program Error with Full Memory Menu Option Selection.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.

3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-816-003 : Standalone Memory Test Aborted**

  Program Error with Full Memory Menu Option Selection.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:
  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-818-000 : Standalone Memory Test Aborted**

  Unable to Locate SMBIOS key "_SM_".

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-818-001 : Standalone Memory Test Aborted**

Unable to Locate SMBIOS key "_SM_".

**Recoverable**

No

**Severity**

Warning

**Serviceable**

No

**Automatically notify support**

No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-818-002 : Standalone Memory Test Aborted**

Unable to Locate SMBIOS key "_SM_".

**Recoverable**

No

**Severity**

Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-818-003 : Standalone Memory Test Aborted**

Unable to Locate SMBIOS key "_SM_".

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-819-000 : Standalone Memory Test Aborted**

The start-end address ranges in the restricted area of the memory.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-819-001 : Standalone Memory Test Aborted**

The start-end address ranges in the restricted area of the memory.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-819-002 : Standalone Memory Test Aborted**

  The start-end address ranges in the restricted area of the memory.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-819-003 : Standalone Memory Test Aborted**

  The start-end address ranges in the restricted area of the memory.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-820-000 : Standalone Memory Test Aborted**

  Memory Upper limit is less than 16 Mbytes.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-820-001 : Standalone Memory Test Aborted**

  Memory Upper limit is less than 16 Mbytes.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.

3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-820-002 : Standalone Memory Test Aborted**

Memory Upper limit is less than 16 Mbytes.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-820-003 : Standalone Memory Test Aborted**

Memory Upper limit is less than 16 Mbytes.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-821-000 : Standalone Memory Test Aborted**

Variable range MTRR registers are larger than fixed range MTRR registers.

**Recoverable**

No

**Severity**

Warning

**Serviceable**

No

**Automatically notify support**

No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-821-001 : Standalone Memory Test Aborted**

Variable range MTRR registers are larger than fixed range MTRR registers.

**Recoverable**

No

**Severity**

Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-821-002 : Standalone Memory Test Aborted**

Variable range MTRR registers are larger than fixed range MTRR registers.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-821-003 : Standalone Memory Test Aborted**

Variable range MTRR registers are larger than fixed range MTRR registers.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-822-000 : Standalone Memory Test Aborted**

Invalid MTRR service request.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-822-001 : Standalone Memory Test Aborted**

  Invalid MTRR service request.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-822-002 : Standalone Memory Test Aborted**

  Invalid MTRR service request.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-822-003 : Standalone Memory Test Aborted**

  Invalid MTRR service request.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-824-000 : Standalone Memory Test Aborted**

  Node Interleave feature must be OFF. Go to Setup and disable Node Interleave option and then re-run the test.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.

3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-824-001 : Standalone Memory Test Aborted**

  Node Interleave feature must be OFF. Go to Setup and disable Node Interleave option and then re-run the test.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-824-002 : Standalone Memory Test Aborted**

  Node Interleave feature must be OFF. Go to Setup and disable Node Interleave option and then re-run the test.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**

No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-824-003 : Standalone Memory Test Aborted**

Node Interleave feature must be OFF. Go to Setup and disable Node Interleave option and then re-run the test.

**Recoverable**

No

**Severity**

Warning

**Serviceable**

No

**Automatically notify support**

No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-826-000 : Standalone Memory Test Aborted**

BIOS: Memory Controller has been disabled. Go to Setup and Enable Memory Controller.

**Recoverable**

No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-826-001 : Standalone Memory Test Aborted**

BIOS: Memory Controller has been disabled. Go to Setup and Enable Memory Controller.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-826-002 : Standalone Memory Test Aborted**

BIOS: Memory Controller has been disabled. Go to Setup and Enable Memory Controller.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-826-003 : Standalone Memory Test Aborted**

BIOS: Memory Controller has been disabled. Go to Setup and Enable Memory Controller.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA

– Latest level of BMC/IMM

- **201-827-000 : Standalone Memory Test Aborted**

  BIOS: ECC function has been disabled by BIOS. Go to Setup and enable ECC generation.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  – IBM Support website
  – Latest level of DSA
  – Latest level of BMC/IMM

- **201-827-001 : Standalone Memory Test Aborted**

  BIOS: ECC function has been disabled by BIOS. Go to Setup and enable ECC generation.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-827-002 : Standalone Memory Test Aborted**

  BIOS: ECC function has been disabled by BIOS. Go to Setup and enable ECC generation.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-827-003 : Standalone Memory Test Aborted**

  BIOS: ECC function has been disabled by BIOS. Go to Setup and enable ECC generation.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.

3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-844-000 : Standalone Memory Test Aborted**

  Chipset Error: Problem in masking MSR machine check control MASK registers.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:
  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-844-001 : Standalone Memory Test Aborted**

  Chipset Error: Problem in masking MSR machine check control MASK registers.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-844-002 : Standalone Memory Test Aborted**

Chipset Error: Problem in masking MSR machine check control MASK registers.

**Recoverable**

No

**Severity**

Warning

**Serviceable**

No

**Automatically notify support**

No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-844-003 : Standalone Memory Test Aborted**

Chipset Error: Problem in masking MSR machine check control MASK registers.

**Recoverable**

No

**Severity**

Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-845-000 : Standalone Memory Test Aborted**

Chipset Error: Problem clearing MSR machine check control registers.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-845-001 : Standalone Memory Test Aborted**

Chipset Error: Problem clearing MSR machine check control registers.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-845-002 : Standalone Memory Test Aborted**

Chipset Error: Problem clearing MSR machine check control registers.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-845-003 : Standalone Memory Test Aborted**

  Chipset Error: Problem clearing MSR machine check control registers.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-859-000 : Standalone Memory Test Aborted**

  INVALID XSECSRAT type.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-859-001 : Standalone Memory Test Aborted**

  INVALID XSECSRAT type.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-859-002 : Standalone Memory Test Aborted**

  INVALID XSECSRAT type.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.

3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-859-003 : Standalone Memory Test Aborted**

  INVALID XSECSRAT type.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:
  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-860-000 : Standalone Memory Test Aborted**

  No OEM0 type 1 found.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-860-001 : Standalone Memory Test Aborted**

No OEM0 type 1 found.

**Recoverable**

No

**Severity**

Warning

**Serviceable**

No

**Automatically notify support**

No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-860-002 : Standalone Memory Test Aborted**

No OEM0 type 1 found.

**Recoverable**

No

**Severity**

Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-860-003 : Standalone Memory Test Aborted**

No OEM0 type 1 found.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-861-000 : Standalone Memory Test Aborted**

No SRAT type 1 found.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-861-001 : Standalone Memory Test Aborted**

No SRAT type 1 found.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-861-002 : Standalone Memory Test Aborted**

  No SRAT type 1 found.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-861-003 : Standalone Memory Test Aborted**

  No SRAT type 1 found.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-862-000 : Standalone Memory Test Aborted**

  No OEM1 structure found.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-862-001 : Standalone Memory Test Aborted**

  No OEM1 structure found.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.

3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-862-002 : Standalone Memory Test Aborted**

No OEM1 structure found.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-862-003 : Standalone Memory Test Aborted**

No OEM1 structure found.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-863-000 : Standalone Memory Test Aborted**

No IBMERROR key in OEM1 structure.

**Recoverable**

No

**Severity**

Warning

**Serviceable**

No

**Automatically notify support**

No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-863-001 : Standalone Memory Test Aborted**

No IBMERROR key in OEM1 structure.

**Recoverable**

No

**Severity**

Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-863-002 : Standalone Memory Test Aborted**

No IBMERROR key in OEM1 structure.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-863-003 : Standalone Memory Test Aborted**

No IBMERROR key in OEM1 structure.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-864-000 : Standalone Memory Test Aborted**

No GAS located in OEM1.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-864-001 : Standalone Memory Test Aborted**

  No GAS located in OEM1.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-864-002 : Standalone Memory Test Aborted**

  No GAS located in OEM1.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-864-003 : Standalone Memory Test Aborted**

  No GAS located in OEM1.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-865-000 : Standalone Memory Test Aborted**

  No XSECSRAT key in OEM0 structure.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.

3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-865-001 : Standalone Memory Test Aborted**

No XSECSRAT key in OEM0 structure.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-865-002 : Standalone Memory Test Aborted**

No XSECSRAT key in OEM0 structure.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-865-003 : Standalone Memory Test Aborted**

No XSECSRAT key in OEM0 structure.

**Recoverable**

No

**Severity**

Warning

**Serviceable**

No

**Automatically notify support**

No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-866-000 : Standalone Memory Test Aborted**

EFI-SAL Invalid parameter from GetMemoryMap function.

**Recoverable**

No

**Severity**

Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-866-001 : Standalone Memory Test Aborted**

EFI-SAL Invalid parameter from GetMemoryMap function.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-866-002 : Standalone Memory Test Aborted**

EFI-SAL Invalid parameter from GetMemoryMap function.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-866-003 : Standalone Memory Test Aborted**

EFI-SAL Invalid parameter from GetMemoryMap function.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-867-000 : Standalone Memory Test Aborted**

  EFI/SAL: Buffer not allocated.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-867-001 : Standalone Memory Test Aborted**

  EFI/SAL: Buffer not allocated.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-867-002 : Standalone Memory Test Aborted**

  EFI/SAL: Buffer not allocated.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-867-003 : Standalone Memory Test Aborted**

  EFI/SAL: Buffer not allocated.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.

3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-868-000 : Standalone Memory Test Aborted**

EFI/SAL: Buffer allocated in GetMemoryMap too small.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-868-001 : Standalone Memory Test Aborted**

EFI/SAL: Buffer allocated in GetMemoryMap too small.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-868-002 : Standalone Memory Test Aborted**

EFI/SAL: Buffer allocated in GetMemoryMap too small.

**Recoverable**

No

**Severity**

Warning

**Serviceable**

No

**Automatically notify support**

No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-868-003 : Standalone Memory Test Aborted**

EFI/SAL: Buffer allocated in GetMemoryMap too small.

**Recoverable**

No

**Severity**

Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-869-000 : Standalone Memory Test Aborted**

EFI/SAL Invalid parameter from GetMemoryMap function.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-869-001 : Standalone Memory Test Aborted**

EFI/SAL Invalid parameter from GetMemoryMap function.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-869-002 : Standalone Memory Test Aborted**

EFI/SAL Invalid parameter from GetMemoryMap function.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-869-003 : Standalone Memory Test Aborted**

  EFI/SAL Invalid parameter from GetMemoryMap function.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-870-000 : Standalone Memory Test Aborted**

  CPU Doamin in ACPI not valid.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-870-001 : Standalone Memory Test Aborted**

  CPU Doamin in ACPI not valid.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-870-002 : Standalone Memory Test Aborted**

  CPU Doamin in ACPI not valid.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.

3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-870-003 : Standalone Memory Test Aborted**

CPU Doamin in ACPI not valid.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-871-000 : Standalone Memory Test Aborted**

Data Mis-compare encountered.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-871-001 : Standalone Memory Test Aborted**

Data Mis-compare encountered.

**Recoverable**

No

**Severity**

Warning

**Serviceable**

No

**Automatically notify support**

No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-871-002 : Standalone Memory Test Aborted**

Data Mis-compare encountered.

**Recoverable**

No

**Severity**

Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-871-003 : Standalone Memory Test Aborted**

Data Mis-compare encountered.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-877-000 : Standalone Memory Test Aborted**

BIOS: Sparing in Extended PCI reg. must be OFF. Go to setup and disable sparing.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-877-001 : Standalone Memory Test Aborted**

BIOS: Sparing in Extended PCI reg. must be OFF. Go to setup and disable sparing.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-877-002 : Standalone Memory Test Aborted**

  BIOS: Sparing in Extended PCI reg. must be OFF. Go to setup and disable sparing.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-877-003 : Standalone Memory Test Aborted**

  BIOS: Sparing in Extended PCI reg. must be OFF. Go to setup and disable sparing.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-878-000 : Standalone Memory Test Aborted**

  Sparing feature must be turned OFF. Go to setup and turn the sparing feature OFF.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-878-001 : Standalone Memory Test Aborted**

  Sparing feature must be turned OFF. Go to setup and turn the sparing feature OFF.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.

3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-878-002 : Standalone Memory Test Aborted**

  Sparing feature must be turned OFF. Go to setup and turn the sparing feature OFF.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:
  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-878-003 : Standalone Memory Test Aborted**

  Sparing feature must be turned OFF. Go to setup and turn the sparing feature OFF.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-885-000 : Standalone Memory Test Aborted**

Processor does not support MTRR register manipulation. Can not write to memory without cache.

**Recoverable**

No

**Severity**

Warning

**Serviceable**

No

**Automatically notify support**

No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-885-001 : Standalone Memory Test Aborted**

Processor does not support MTRR register manipulation. Can not write to memory without cache.

**Recoverable**

No

**Severity**

Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-885-002 : Standalone Memory Test Aborted**

Processor does not support MTRR register manipulation. Can not write to memory without cache.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-885-003 : Standalone Memory Test Aborted**

Processor does not support MTRR register manipulation. Can not write to memory without cache.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-886-000 : Standalone Memory Test Aborted**

Memory Upper limit is less than 16 Mbytes.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-886-001 : Standalone Memory Test Aborted**

  Memory Upper limit is less than 16 Mbytes.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-886-002 : Standalone Memory Test Aborted**

  Memory Upper limit is less than 16 Mbytes.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-886-003 : Standalone Memory Test Aborted**

  Memory Upper limit is less than 16 Mbytes.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-899-000 : Standalone Memory Test Aborted**

  Memory Diagnostics Test Aborted by user.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-899-001 : Standalone Memory Test Aborted**

  Memory Diagnostics Test Aborted by user.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-899-002 : Standalone Memory Test Aborted**

  Memory Diagnostics Test Aborted by user.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-899-003 : Standalone Memory Test Aborted**

  Memory Diagnostics Test Aborted by user.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-901-000 : Standalone Memory Test Failed**

  Memory Diagnostics Test Failed.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.
  5. Replace any DIMMS(s) mentioned in error, one by one.
  6. Make sure that all DIMMs are enabled in the Configuration/Setup Utility program.
  7. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **201-901-001 : Standalone Memory Test Failed**

  Memory Diagnostics Test Failed.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.
5. Replace any DIMMS(s) mentioned in error, one by one.
6. Make sure that all DIMMs are enabled in the Configuration/Setup Utility program.
7. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-901-002 : Standalone Memory Test Failed**

Memory Diagnostics Test Failed.

**Recoverable**

No

**Severity**

Error

**Serviceable**

Yes

**Automatically notify support**

No

**User Response**

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.
5. Replace any DIMMS(s) mentioned in error, one by one.
6. Make sure that all DIMMs are enabled in the Configuration/Setup Utility program.
7. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **201-901-003 : Standalone Memory Test Failed**

  Memory Diagnostics Test Failed.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Perform the actions mentioned one at a time and try the test after each action.
  2. If the problem remains, contact your technical-service representative.
  3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
  4. Make sure that DSA and BIOS/uEFI are at the latest level.
  5. Replace any DIMMS(s) mentioned in error, one by one.
  6. Make sure that all DIMMs are enabled in the Configuration/Setup Utility program.
  7. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

## DSA memory stress test results

The following messages can result when you run the memory stress test.

## Test results for the DSA memory stress test

The following messages can result when you run the DSA memory stress test.

- **202-000-000 : MemStr Test Passed**

  Test Passed.

  **Recoverable**
  No

  **Severity**
  Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **202-801-000 : MemStr Test Aborted**

Internal program error.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Turn off and restart the system.
2. Make sure that the DSA Diagnostic code is at the latest level.
3. Run the test again.
4. If the system has stopped responding, turn off and restart the system.
5. Check the system firmware level and upgrade if necessary.
6. Run the memory diagnostic to identify the specific failing DIMM.
7. If the failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **202-802-000 : MemStr Test Aborted**

Memory size is insufficient to run the test. At least 1 GB is required.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **202-803-000 : MemStr Test Aborted**

User pressed Ctrl-C.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **202-901-000 : MemStr Test Failed**

Test Failed.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Execute the standard DSA memory diagnostics to validate all memory.
2. Make sure that the DSA Diagnostic code is at the latest level.
3. Turn off the system and disconnect it from power.
4. Reseat the memory cards and DIMMs.
5. Reconnect the system to power and turn the system on.

6. Run the test again.
7. Execute the standard DSA memory diagnostics to validate all memory.
8. If the failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **202-902-000 : MemStr Test Failed**

  Memory size is insufficient to run the test.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Ensure that all memory is enabled by checking the "Available System Memory" in the "Resource Utilization" section of the DSA Diagnostic Event log.
  2. If necessary, access the Configuration/Setup Utility program by pressing F1 during system boot and enable all memory.
  3. Make sure that the DSA Diagnostic code is at the latest level.
  4. Run the test again.
  5. Execute the standard DSA memory diagnostics to validate all memory.
  6. If the failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

## DSA Nvidia GPU test results

The following messages can result when you run the Nvidia GPU test.

## Test results for the DSA Nvidia GPU test

The following messages can result when you run the DSA Nvidia GPU test.

- **409-000-000 : NVIDIA User Diagnostic Test Passed**

  NVIDIA User Diagnostic test passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **409-003-000 : Nvidia::DiagnosticServiceProvider::Bandwidth Test Passed**

  Nvidia GPU Bandwidth test passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **409-004-000 : Nvidia::DiagnosticServiceProvider::Query Test Passed**

  Nvidia GPU Query test passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**

No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **409-005-000 : Nvidia::DiagnosticServiceProvider::Matrix Test Passed**

Nvidia GPU Matrix test passed.

**Recoverable**
No

**Severity**
Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **409-006-000 : Nvidia::DiagnosticServiceProvider::Binomial Test Passed**

Nvidia GPU Binomial test passed.

**Recoverable**
No

**Severity**
Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **409-800-000 : NVIDIA User Diagnostic Test Aborted**

NVIDIA User Diagnostic test was canceled.

**Recoverable**
No

**Severity**
Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **409-803-000 : Nvidia::DiagnosticServiceProvider::Bandwidth Test Aborted**

Nvidia GPU Bandwidth test was canceled.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **409-804-000 : Nvidia::DiagnosticServiceProvider::Query Test Aborted**

Nvidia GPU Query test was canceled.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA

- Latest level of BMC/IMM

- **409-805-000 : Nvidia::DiagnosticServiceProvider::Matrix Test Aborted**

  Nvidia GPU Matrix test was canceled.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **409-806-000 : Nvidia::DiagnosticServiceProvider::Binomial Test Aborted**

  Nvidia GPU Binomial test was canceled.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **409-900-000 : NVIDIA User Diagnostic Test Failed**

  NVIDIA User Diagnostic Test Failed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Verify that the GPU is seated in the PCIe slot correctly by reseating the GPU. Then power cycle the system.
2. Verify that the power connectors to the GPU are connected firmly. Then power cycle the system.
3. Run nvidia-smi -q In some cases this will report a poorly connected power cable.
4. Rerun the diagnostics, using the same GPU, on system that is known to be working. A variety of system issues can cause diagnostic failure.
5. If the problem remains, contact your IBM technical-support representative.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **409-903-000 : Nvidia::DiagnosticServiceProvider::Bandwidth Test Failed**

Nvidia GPU Bandwidth Test Failed.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Verify that the GPU is seated in the PCIe slot correctly by reseating the GPU. Then power cycle the system.
2. Verify that the power connectors to the GPU are connected firmly. Then power cycle the system.
3. Run nvidia-smi -q In some cases this will report a poorly connected power cable.
4. Rerun the diagnostics, using the same GPU, on system that is known to be working. A variety of system issues can cause diagnostic failure.
5. If the problem remains, contact your IBM technical-support representative.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **409-904-000 : Nvidia::DiagnosticServiceProvider::Query Test Failed**

Nvidia GPU Query Test Failed.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Verify that the GPU is seated in the PCIe slot correctly by reseating the GPU. Then power cycle the system.
2. Verify that the power connectors to the GPU are connected firmly. Then power cycle the system.
3. Run nvidia-smi -q In some cases this will report a poorly connected power cable.
4. Rerun the diagnostics, using the same GPU, on system that is known to be working. A variety of system issues can cause diagnostic failure.
5. If the problem remains, contact your IBM technical-support representative.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **409-905-000 : Nvidia::DiagnosticServiceProvider::Matrix Test Failed**

Nvidia GPU Matrix Test Failed.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Verify that the GPU is seated in the PCIe slot correctly by reseating the GPU. Then power cycle the system.
2. Verify that the power connectors to the GPU are connected firmly. Then power cycle the system.
3. Run nvidia-smi -q In some cases this will report a poorly connected power cable.
4. Rerun the diagnostics, using the same GPU, on system that is known to be working. A variety of system issues can cause diagnostic failure.
5. If the problem remains, contact your IBM technical-support representative.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **409-906-000 : Nvidia::DiagnosticServiceProvider::Binomial Test Failed**

  Nvidia GPU Binomial Test Failed.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Verify that the GPU is seated in the PCIe slot correctly by reseating the GPU. Then power cycle the system.
  2. Verify that the power connectors to the GPU are connected firmly. Then power cycle the system.
  3. Run nvidia-smi -q In some cases this will report a poorly connected power cable.
  4. Rerun the diagnostics, using the same GPU, on system that is known to be working. A variety of system issues can cause diagnostic failure.
  5. If the problem remains, contact your IBM technical-support representative.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

## DSA optical drive test results

The following messages can result when you run the optical drive test.

## Test results for the DSA optical drive test

The following messages can result when you run the DSA optical drive test.

- **215-000-000 : Optical Drive Test Passed**

  Optical Drive Test Passed.

  **Recoverable**

No

**Severity**
Event

**Serviceable**
No

**Automatically notify support**
No

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **215-801-000 : Optical Drive Test Aborted**

Optical Drive Test Aborted. Unable to communicate with driver.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Make sure that the DSA Diagnostic code is at the latest level.
2. Run the test again.
3. Check the drive cabling for loose or broken connections at both ends or damage to the cable. Replace the cable if damage is present.
4. Run the test again.
5. Check system firmware level and upgrade if necessary.The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
6. Run the test again.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **215-802-000 : Optical Drive Test Aborted**

Optical Drive Test Aborted. A read error was encountered.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Insert a new CD or DVD into the drive and wait for 15 seconds for the media to be recognized. Rerun the test.
2. Check the drive cabling for loose or broken connections at both ends or damage to the cable. Replace the cable if damage is present.
3. Run the test again.
4. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **215-803-000 : Optical Drive Test Failed**

Optical Drive Test Failed. Disk may be in use by the operating system.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Wait for the system activity to cease
2. Run the test again
3. Turn off and restart the system.
4. Run the test again.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **215-804-000 : Optical Drive Test Aborted**

  Optical Drive Test Aborted. The media tray is open.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Close the media tray and wait for 15 seconds for the media to be recognized. Run the test again.
  2. Insert a new CD or DVD into the drive and wait for 15 seconds for the media to be recognized. Rerun the test.
  3. Check the drive cabling for loose or broken connections at both ends or damage to the cable. Replace the cable if damage is present.
  4. Run the test again.
  5. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **215-901-000 : Optical Drive Test Aborted**

  Optical Drive Test Aborted. Drive media is not detected.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. Insert a new CD or DVD into the drive and wait for 15 seconds for the media to be recognized. Rerun the test.
  2. Check the drive cabling for loose or broken connections at both ends or damage to the cable. Replace the cable if damage is present.
  3. Run the test again.

4. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **215-902-000 : Optical Drive Test Failed**

Optical Drive Test Failed. Read miscompare.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Insert a new CD or DVD into the drive and wait for 15 seconds for the media to be recognized. Rerun the test.
2. Check the drive cabling for loose or broken connections at both ends or damage to the cable. Replace the cable if damage is present.
3. Run the test again.
4. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **215-903-000 : Optical Drive Test Aborted**

Optical Drive Test Aborted. Could not access the device.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**

Complete the following steps:

1. Insert a new CD or DVD into the drive and wait for 15 seconds for the media to be recognized. Rerun the test.
2. Check the drive cabling for loose or broken connections at both ends or damage to the cable. Replace the cable if damage is present.
3. Run the test again.
4. Check system firmware level and upgrade if necessary.The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
5. Run the test again.
6. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

## DSA system management test results

The following messages can result when you run the system management test.

## Test results for the DSA system management test

The following messages can result when you run the DSA system management test.

- **166-000-001 : IMM I2C Test Passed**

  IMM I2C Test Passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **166-801-001 : IMM I2C Test Aborted**

IMM returned incorrect response length.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **166-802-001 : IMM I2C Test Aborted**

Test cannot be completed for unknown reason.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **166-803-001 : IMM I2C Test Aborted**

Node Busy. Try later.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **166-804-001 : IMM I2C Test Aborted**

Invalid Command.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **166-805-001 : IMM I2C Test Aborted**

Invalid Command for given LUN.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **166-806-001 : IMM I2C Test Aborted**

Timeout while processing command.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **166-807-001 : IMM I2C Test Aborted**

Out of space.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **166-808-001 : IMM I2C Test Aborted**

Reservation Canceled or Invalid Reservation ID.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **166-809-001 : IMM I2C Test Aborted**

Request data truncated.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **166-810-001 : IMM I2C Test Aborted**

Request data length invalid.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **166-811-001 : IMM I2C Test Aborted**

Request data field length limit exceeded.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **166-812-001 : IMM I2C Test Aborted**

Parameter out of range.

**Recoverable**

No

**Severity**

Warning

**Serviceable**

Yes

**Automatically notify support**

No

**User Response**

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **166-813-001 : IMM I2C Test Aborted**

Cannot return number of requested data bytes.

**Recoverable**

No

**Severity**

Warning

**Serviceable**

Yes

**Automatically notify support**

No

**User Response**

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **166-814-001 : IMM I2C Test Aborted**

Requested Sensor, data, or record not present.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **166-815-001 : IMM I2C Test Aborted**

Invalid data field in Request.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **166-816-001 : IMM I2C Test Aborted**

  Command illegal for specified sensor or record type.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Perform the actions mentioned one at a time and try the test after each action:

  1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
  2. Make sure that DSA and BMC/IMM are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **166-817-001 : IMM I2C Test Aborted**

  Command response could not be provided.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Perform the actions mentioned one at a time and try the test after each action:

  1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
  2. Make sure that DSA and BMC/IMM are at the latest level.

  **Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **166-818-001 : IMM I2C Test Aborted**

  Cannot execute duplicated request.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Perform the actions mentioned one at a time and try the test after each action:

  1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
  2. Make sure that DSA and BMC/IMM are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **166-819-001 : IMM I2C Test Aborted**

  Command response could not be provided. SDR Repository in?update mode.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Perform the actions mentioned one at a time and try the test after each action:

  1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
  2. Make sure that DSA and BMC/IMM are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA

- Latest level of BMC/IMM

- **166-820-001 : IMM I2C Test Aborted**

  Command response could not be provided. Device in firmware update mode.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Perform the actions mentioned one at a time and try the test after each action:

  1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
  2. Make sure that DSA and BMC/IMM are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **166-821-001 : IMM I2C Test Aborted**

  Command response could not be provided. BMC initialization in progress.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Perform the actions mentioned one at a time and try the test after each action:

  1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
  2. Make sure that DSA and BMC/IMM are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **166-822-001 : IMM I2C Test Aborted**

  Destination unavailable.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Perform the actions mentioned one at a time and try the test after each action:

  1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
  2. Make sure that DSA and BMC/IMM are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **166-823-001 : IMM I2C Test Aborted**

  Cannot execute command. Insufficient privilege level.

  **Recoverable**
  No

  **Severity**
  Warning

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Perform the actions mentioned one at a time and try the test after each action:

  1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
  2. Make sure that DSA and BMC/IMM are at the latest level.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **166-824-001 : IMM I2C Test Aborted**

Cannot execute command.

**Recoverable**
No

**Severity**
Warning

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **166-901-001 : IMM I2C Test Failed**

IMM Indicates failure in H8S 2117 bus (BUS 0).

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.
3. Run the test again.
4. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **166-904-001 : IMM I2C Test Failed**

  IMM Indicates failure in PCA9543 bus (BUS 3).

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Perform the actions mentioned one at a time and try the test after each action:

  1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
  2. Make sure that DSA and BMC/IMM are at the latest level.
  3. Run the test again.
  4. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **166-905-001 : IMM I2C Test Failed**

  IMM Indicates failure in MAX7319 bus (BUS 4).

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Perform the actions mentioned one at a time and try the test after each action:

  1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
  2. Make sure that DSA and BMC/IMM are at the latest level.
  3. Run the test again.
  4. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

  **Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **166-907-001 : IMM I2C Test Failed**

  IMM Indicates failure in LM75 bus (BUS 6).

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Perform the actions mentioned one at a time and try the test after each action:

  1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
  2. Make sure that DSA and BMC/IMM are at the latest level.
  3. Run the test again.
  4. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **166-908-001 : IMM I2C Test Failed**

  IMM Indicates failure in PCA9557 bus (BUS 7).

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Perform the actions mentioned one at a time and try the test after each action:

  1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
  2. Make sure that DSA and BMC/IMM are at the latest level.
  3. Run the test again.

4. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

## DSA tape drive test results

The following messages can result when you run the tape drive test.

## Test results for the DSA tape drive test

The following messages can result when you run the DSA tape drive test.

- **264-000-000 : Tape Test Passed**

  Tape Test Passed.

  **Recoverable**
  No

  **Severity**
  Event

  **Serviceable**
  No

  **Automatically notify support**
  No

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **264-901-000 : Tape Test Failed**

  An error was found in the tape alert log.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

**User Response**

Complete the following steps:

1. Clean the tape drive using the appropriate cleaning media and install new media.
2. Run the test again.
3. Clear the error log.
4. Run the test again.
5. Make sure that the drive firmware is at the latest level.
6. Rerun the test after upgrading to the latest firmware level.
7. If the failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **264-902-000 : Tape Test Failed**

Tape Test Failed. Media is not detected.

**Recoverable**

No

**Severity**

Error

**Serviceable**

Yes

**Automatically notify support**

No

**User Response**

Complete the following steps:

1. Clean the tape drive using the appropriate cleaning media and install new media.
2. Run the test again.
3. Make sure that the drive firmware is at the latest level.
4. Rerun the test after upgrading to the latest firmware level.
5. If the failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **264-903-000 : Tape Test Failed**

Tape Test Failed. Media is not detected.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Clean the tape drive using the appropriate cleaning media and install new media.
2. Run the test again.
3. Make sure that the drive firmware is at the latest level.
4. Rerun the test after upgrading to the latest firmware level.
5. If the failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **264-904-000 : Tape Test Failed**

Tape Test Failed. Drive hardware error.

**Recoverable**
No

**Severity**
Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Check the tape drive cabling for loose or broken connections or damage to the cable. Replace the cable if damage is present.
2. Clean the tape drive using the appropriate cleaning media and install new media.
3. Run the test again.
4. Make sure that the drive firmware is at the latest level.
5. Rerun the test after upgrading to the latest firmware level.
6. If the failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **264-905-000 : Tape Test Failed**

  Tape Test Failed. Software error: invalid request.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

  **User Response**
  Complete the following steps:

  1. If the system has stopped responding, turn off and restart the system.
  2. Check the system firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
  3. Run the test again.
  4. If the system has stopped responding, turn off and restart the system.
  5. Make sure that the drive firmware is at the latest level.
  6. Run the test again.
  7. If the failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

  **Related links**

  - IBM Support website
  - Latest level of DSA
  - Latest level of BMC/IMM

- **264-906-000 : Tape Test Failed**

  Tape Test Failed. Unrecognized error.

  **Recoverable**
  No

  **Severity**
  Error

  **Serviceable**
  Yes

  **Automatically notify support**
  No

**User Response**

Complete the following steps:

1. Clean the tape drive using the appropriate cleaning media and install new media.
2. Run the test again.
3. Make sure that the drive firmware is at the latest level.
4. Rerun the test after upgrading to the latest firmware level.
5. Make sure that the DSA Diagnostic code is at the latest level.
6. Run the test again.
7. Check the system firmware level and upgrade if necessary.
8. Run the test again.
9. If the failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **264-907-000 : Tape Test Failed**

An error was found in the block address somewhere.

**Recoverable**

No

**Severity**

Error

**Serviceable**

Yes

**Automatically notify support**

No

**User Response**

Complete the following steps:

1. Clean the tape drive using the appropriate cleaning media and install new media.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

- **264-908-000 : Tape Test Failed**

An error was found in getting tape capacity.

**Recoverable**

No

**Severity**

Error

**Serviceable**
Yes

**Automatically notify support**
No

**User Response**
Complete the following steps:

1. Make sure that medium is present.
2. Clean the tape drive using the appropriate cleaning media and install new media.

**Related links**

- IBM Support website
- Latest level of DSA
- Latest level of BMC/IMM

# Appendix D. Getting help and technical assistance

If you need help, service, or technical assistance or just want more information about Lenovo products, you will find a wide variety of sources available from Lenovo to assist you.

Use this information to obtain additional information about Lenovo and Lenovo products, and determine what to do if you experience a problem with your Lenovo system or optional device.

**Note:** This section includes references to IBM web sites and information about obtaining service. IBM is Lenovo's preferred service provider for the System x, Flex System, and NeXtScale System products.

## Before you call

Before you call, make sure that you have taken these steps to try to solve the problem yourself.

If you believe that you require warranty service for your Lenovo product, the service technicians will be able to assist you more efficiently if you prepare before you call.

- Check all cables to make sure that they are connected.
- Check the power switches to make sure that the system and any optional devices are turned on.
- Check for updated software, firmware, and operating-system device drivers for your Lenovo product. The Lenovo Warranty terms and conditions state that you, the owner of the Lenovo product, are responsible for maintaining and updating all software and firmware for the product (unless it is covered by an additional maintenance contract). Your service technician will request that you upgrade your software and firmware if the problem has a documented solution within a software upgrade.
- If you have installed new hardware or software in your environment, check http://www.lenovo.com/serverproven/ to make sure that the hardware and software is supported by your product.
- Go to http://www.lenovo.com/support to check for information to help you solve the problem.
- Gather the following information to provide to the service technician. This data will help the service technician quickly provide a solution to your problem and ensure that you receive the level of service for which you might have contracted.
  - Hardware and Software Maintenance agreement contract numbers, if applicable
  - Machine type number (Lenovo 4-digit machine identifier)
  - Model number
  - Serial number
  - Current system UEFI and firmware levels
  - Other pertinent information such as error messages and logs
- Go to http://www.ibm.com/support/ entry/portal/Open_service_request to submit an Electronic Service Request. Submitting an Electronic Service Request will start the process of determining a solution to your problem by making the pertinent information available to the service technicians. The IBM service technicians can start working on your solution as soon as you have completed and submitted an Electronic Service Request.

You can solve many problems without outside assistance by following the troubleshooting procedures that Lenovo provides in the online help or in the Lenovo product documentation. The Lenovo product documentation also describes the diagnostic tests that you can perform. The documentation for most systems, operating systems, and programs contains troubleshooting procedures and explanations of error messages and error codes. If you suspect a software problem, see the documentation for the operating system or program.

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## Using the documentation

Information about your Lenovo system and preinstalled software, if any, or optional device is available in the product documentation. That documentation can include printed documents, online documents, readme files, and help files.

See the troubleshooting information in your system documentation for instructions for using the diagnostic programs. The troubleshooting information or the diagnostic programs might tell you that you need additional or updated device drivers or other software. Lenovo maintains pages on the World Wide Web where you can get the latest technical information and download device drivers and updates. To access these pages, go to http://www.lenovo.com/support.

## Getting help and information from the World Wide Web

Up-to-date information about Lenovo products and support is available on the World Wide Web.

On the World Wide Web, up-to-date information about Lenovo systems, optional devices, services, and support is available at http://www.lenovo.com/support. The most current version of the product documentation is available in the following product-specific Information Centers:

- **Flex System products:**

  http://pic.dhe.ibm.com/infocenter/ flexsys/information/index.jsp
- **System x products:**

  http://shop.lenovo.com/us/ en/systems/
- **NeXtScale System products:**

  http://pic.dhe.ibm.com/infocenter/ nxtscale/documentation/index.jsp

## How to send DSA data

You can use the Enhanced Customer Data Repository to send diagnostic data to IBM.

Before you send diagnostic data to IBM, read the terms of use at http://www.ibm.com/de/support/ecurep/terms.html.

You can use any of the following methods to send diagnostic data:

- **Standard upload**:

  http://www.ibm.com/de/support/ ecurep/send_http.html
- **Standard upload with the system serial number**:

  http://www.ecurep.ibm.com/app/ upload_hw
- **Secure upload**:

  http://www.ibm.com/de/support/ ecurep/send_http.html#secure
- **Secure upload with the system serial number**:

  https://www.ecurep.ibm.com/ app/upload_hw

## Creating a personalized support web page

You can create a personalized support web page by identifying Lenovo products that are of interest to you.

To create a personalized support web page, go to http://www.ibm.com/support/ mynotifications. From this personalized page, you can subscribe to weekly email notifications about new technical documents, search for information and downloads, and access various administrative services.

## Software service and support

Through IBM Support Line, you can get telephone assistance, for a fee, with usage, configuration, and software problems with your Lenovo products.

For more information about Support Line and other IBM services, see http://www.ibm.com/services or see http://www.ibm.com/planetwide for support telephone numbers. In the U.S. and Canada, call 1-800-IBM-SERV (1-800-426-7378).

## Hardware service and support

IBM is Lenovo's preferred service provider for the System x, Flex System and NeXtScale System products.

You can receive hardware service through your Lenovo reseller or from IBM. To locate a reseller authorized by Lenovo to provide warranty service, go to http://www.ibm.com/partnerworld and click **Business Partner Locator**. For IBM support telephone numbers, see http://www.ibm.com/planetwide. In the U.S. and Canada, call 1-800-IBM-SERV (1-800-426-7378).

In the U.S. and Canada, hardware service and support is available 24 hours a day, 7 days a week. In the U.K., these services are available Monday through Friday, from 9 a.m. to 6 p.m.

## Taiwan product service

Use this information to contact IBM Taiwan product service.

台灣 IBM 產品服務聯絡方式：
台灣國際商業機器股份有限公司
台北市松仁路 7 號 3 樓
電話：0800-016-888

IBM Taiwan product service contact information:

IBM Taiwan Corporation
3F, No 7, Song Ren Rd.
Taipei, Taiwan
Telephone: 0800-016-888

# Appendix E. Notices

Lenovo may not offer the products, services, or features discussed in this document in all countries. Consult your local Lenovo representative for information on the products and services currently available in your area.

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*Morrisville, NC 27560*
*U.S.A.*
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Any performance data contained herein was determined in a controlled environment. Therefore, the result obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

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Internet Explorer, Microsoft, and Windows are trademarks of the Microsoft group of companies.

Linux is a registered trademark of Linus Torvalds.

Other company, product, or service names may be trademarks or service marks of others.

## Important notes

Processor speed indicates the internal clock speed of the microprocessor; other factors also affect application performance.

CD or DVD drive speed is the variable read rate. Actual speeds vary and are often less than the possible maximum.

When referring to processor storage, real and virtual storage, or channel volume, KB stands for 1 024 bytes, MB stands for 1 048 576 bytes, and GB stands for 1 073 741 824 bytes.

When referring to hard disk drive capacity or communications volume, MB stands for 1 000 000 bytes, and GB stands for 1 000 000 000 bytes. Total user-accessible capacity can vary depending on operating environments.

Maximum internal hard disk drive capacities assume the replacement of any standard hard disk drives and population of all hard-disk-drive bays with the largest currently supported drives that are available from Lenovo.

Maximum memory might require replacement of the standard memory with an optional memory module.

Each solid-state memory cell has an intrinsic, finite number of write cycles that the cell can incur. Therefore, a solid-state device has a maximum number of write cycles that it can be subjected to, expressed as `total bytes written` (TBW). A device that has exceeded this limit might fail to respond to system-generated commands or might be incapable of being written to. Lenovo is not responsible for replacement of a device that has exceeded its maximum guaranteed number of program/erase cycles, as documented in the Official Published Specifications for the device.

Lenovo makes no representations or warranties with respect to non-Lenovo products. Support (if any) for the non-Lenovo products is provided by the third party, not Lenovo.

Some software might differ from its retail version (if available) and might not include user manuals or all program functionality.

## Recycling information

Lenovo encourages owners of information technology (IT) equipment to responsibly recycle their equipment when it is no longer needed. Lenovo offers a variety of programs and services to assist equipment owners in recycling their IT products. For information on recycling Lenovo products, go to:http://www.lenovo.com/recycling.

## Particulate contamination

**Attention:** Airborne particulates (including metal flakes or particles) and reactive gases acting alone or in combination with other environmental factors such as humidity or temperature might pose a risk to the device that is described in this document.

Risks that are posed by the presence of excessive particulate levels or concentrations of harmful gases include damage that might cause the device to malfunction or cease functioning altogether. This specification sets forth limits for particulates and gases that are intended to avoid such damage. The limits must not be viewed or used as definitive limits, because numerous other factors, such as temperature or moisture content of the air, can influence the impact of particulates or environmental corrosives and gaseous contaminant transfer. In the absence of specific limits that are set forth in this document, you must implement practices that maintain particulate and gas levels that are consistent with the protection of human health and safety. If Lenovo determines that the levels of particulates or gases in your environment have caused damage to the device, Lenovo may condition provision of repair or replacement of devices or parts on implementation of appropriate remedial measures to mitigate such environmental contamination. Implementation of such remedial measures is a customer responsibility.

*Table 41. Limits for particulates and gases*

| Contaminant | Limits |
|---|---|
| Particulate | • The room air must be continuously filtered with 40% atmospheric dust spot efficiency (MERV 9) according to ASHRAE Standard 52.2[1].<br>• Air that enters a data center must be filtered to 99.97% efficiency or greater, using high-efficiency particulate air (HEPA) filters that meet MIL-STD-282.<br>• The deliquescent relative humidity of the particulate contamination must be more than 60%[2].<br>• The room must be free of conductive contamination such as zinc whiskers. |
| Gaseous | • Copper: Class G1 as per ANSI/ISA 71.04-1985[3]<br>• Silver: Corrosion rate of less than 300 Å in 30 days |

[1] ASHRAE 52.2-2008 - *Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size*. Atlanta: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

[2] The deliquescent relative humidity of particulate contamination is the relative humidity at which the dust absorbs enough water to become wet and promote ionic conduction.

[3] ANSI/ISA-71.04-1985. *Environmental conditions for process measurement and control systems: Airborne contaminants*. Instrument Society of America, Research Triangle Park, North Carolina, U.S.A.

## Telecommunication regulatory statement

This product may not be certified in your country for connection by any means whatsoever to interfaces of public telecommunications networks. Further certification may be required by law prior to making any such connection. Contact a Lenovo representative or reseller for any questions.

## Electronic emission notices

When you attach a monitor to the equipment, you must use the designated monitor cable and any interference suppression devices that are supplied with the monitor.

## Federal Communications Commission (FCC) statement

**Note:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment

generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Lenovo is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that might cause undesired operation.

## Industry Canada Class A emission compliance statement

This Class A digital apparatus complies with Canadian ICES-003.

## Avis de conformité à la réglementation d'Industrie Canada

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

## Australia and New Zealand Class A statement

**Attention:** This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

## European Union EMC Directive conformance statement

This product is in conformity with the protection requirements of EU Council Directive 2014/30/EU on the approximation of the laws of the Member States relating to electromagnetic compatibility. Lenovo cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the installation of option cards from other manufacturers.

This product has been tested and found to comply with the limits for Class A equipment according to European Standards harmonized in the Directives in compliance. The limits for Class A equipment were derived for commercial and industrial environments to provide reasonable protection against interference with licensed communication equipment.

Lenovo, Einsteinova 21, 851 01 Bratislava, Slovakia

CE

**Warning:** This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

## Germany Class A statement

**Deutschsprachiger EU Hinweis: Hinweis für Geräte der Klasse A EU-Richtlinie zur Elektromagnetischen Verträglichkeit**

**Deutschsprachiger EU Hinweis:Hinweis für Geräte der Klasse A EU-Richtlinie zur Elektromagnetischen Verträglichkeit** Dieses Produkt entspricht den Schutzanforderungen der EU-Richtlinie 2014/30/EU (früher 2004/108/EC) zur Angleichung der Rechtsvorschriften über die elektromagnetische Verträglichkeit in den EU-Mitgliedsstaaten und hält die Grenzwerte der Klasse A der Norm gemäß Richtlinie.

Um dieses sicherzustellen, sind die Geräte wie in den Handbüchern beschrieben zu installieren und zu betreiben. Des Weiteren dürfen auch nur von der Lenovo empfohlene Kabel angeschlossen werden. Lenovo übernimmt keine Verantwortung für die Einhaltung der Schutzanforderungen, wenn das Produkt ohne Zustimmung der Lenovo verändert bzw. wenn Erweiterungskomponenten von Fremdherstellern ohne Empfehlung der Lenovo gesteckt/eingebaut werden.

**Deutschland:**

**Einhaltung des Gesetzes über die elektromagnetische Verträglichkeit von Betriebsmittein** Dieses Produkt entspricht dem „Gesetz über die elektromagnetische Verträglichkeit von Betriebsmitteln“ EMVG (früher „Gesetz über die elektromagnetische Verträglichkeit von Geräten“). Dies ist die Umsetzung der EU-Richtlinie 2014/30/EU (früher 2004/108/EC) in der Bundesrepublik Deutschland.

**Zulassungsbescheinigung laut dem Deutschen Gesetz über die elektromagnetische Verträglichkeit von Betriebsmitteln, EMVG vom 20. Juli 2007 (früher Gesetz über die elektromagnetische Verträglichkeit von Geräten), bzw. der EMV EU Richtlinie 2014/30/EU (früher 2004/108/EC), für Geräte der Klasse A.**

Dieses Gerät ist berechtigt, in Übereinstimmung mit dem Deutschen EMVG das EG-Konformitätszeichen - CE - zu führen. Verantwortlich für die Konformitätserklärung nach Paragraf 5 des EMVG ist die Lenovo (Deutschland) GmbH, Meitnerstr. 9, D-70563 Stuttgart.

Informationen in Hinsicht EMVG Paragraf 4 Abs. (1) 4:**Das Gerät erfüllt die Schutzanforderungen nach EN 55024 und EN 55022 Klasse A.**

Nach der EN 55022: „Dies ist eine Einrichtung der Klasse A. Diese Einrichtung kann im Wohnbereich Funkstörungen verursachen; in diesem Fall kann vom Betreiber verlangt werden, angemessene Maßnahmen durchzuführen und dafür aufzukommen.“

Nach dem EMVG: „Geräte dürfen an Orten, für die sie nicht ausreichend entstört sind, nur mit besonderer Genehmigung des Bundesministers für Post und Telekommunikation oder des Bundesamtes für Post und Telekommunikation betrieben werden. Die Genehmigung wird erteilt, wenn keine elektromagnetischen Störungen zu erwarten sind.“ (Auszug aus dem EMVG, Paragraph 3, Abs. 4). Dieses Genehmigungsverfahren ist nach Paragraph 9 EMVG in Verbindung mit der entsprechenden Kostenverordnung (Amtsblatt 14/93) kostenpflichtig.

Anmerkung: Um die Einhaltung des EMVG sicherzustellen sind die Geräte, wie in den Handbüchern angegeben, zu installieren und zu betreiben.

## Japan VCCI Class A statement

この装置は、クラス A 情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。 VCCI-A

This is a Class A product based on the standard of the Voluntary Control Council for Interference (VCCI). If this equipment is used in a domestic environment, radio interference may occur, in which case the user may be required to take corrective actions.

## Japanese statement for ac power consumption for JEITA harmonics guideline

定格入力電力表示

（社）電子情報技術参照委員会 家電・汎用品高調波抑制対策ガイドライン
実行計画書に基づく定格入力電力値： W

お手持ちのユニットの定格入力電力値（W）はユニットの電源装置に貼付されている電源仕様ラベルを
ご参照下さい

## Japanese statement of compliance for products less than or equal to 20A per phase for JEITA harmonics guideline

日本の定格電流が 20A/相 以下の機器に対する高調波電流規制
高調波電流規格 JIS C 61000-3-2 適合品

## Korea Communications Commission (KCC) statement

이 기기는 업무용(A급)으로 전자파적합기기로
서 판매자 또는 사용자는 이 점을 주의하시기
바라며, 가정외의 지역에서 사용하는 것을 목
적으로 합니다.

This is electromagnetic wave compatibility equipment for business (Type A). Sellers and users need to pay attention to it. This is for any areas other than home.

## Russia Electromagnetic Interference (EMI) Class A statement

ВНИМАНИЕ! Настоящее изделие относится к классу А.
В жилых помещениях оно может создавать радиопомехи, для
снижения которых необходимы дополнительные меры

## People's Republic of China Class A electronic emission statement

声　　明
此为 A 级产品。在生活环境中，
该产品可能会造成无线电干扰。
在这种情况下，可能需要用户对其
干扰采取切实可行的措施。

## Taiwan Class A compliance statement

警告使用者:
這是甲類的資訊產品，在
居住的環境中使用時，可
能會造成射頻干擾，在這
種情況下，使用者會被要
求採取某些適當的對策。

# Taiwan BSMI RoHS declaration

Taiwan BSMI RoHS declaration

| 單元 Unit | 限用物質及其化學符號 Restricted substances and its chemical symbols | | | | | |
|---|---|---|---|---|---|---|
| | 鉛Lead (Pb) | 汞Mercury (Hg) | 鎘Cadmium (Cd) | 六價鉻 Hexavalent chromium ($Cr^{+6}$) | 多溴聯苯 Polybrominated biphenyls (PBB) | 多溴二苯醚 Polybrominated diphenyl ethers (PBDE) |
| 機架 | ○ | ○ | ○ | ○ | ○ | ○ |
| 外部蓋板 | ○ | ○ | ○ | ○ | ○ | ○ |
| 機械組合件 | ○ | ○ | ○ | ○ | ○ | ○ |
| 空氣傳動設備 | – | ○ | ○ | ○ | ○ | ○ |
| 冷卻組合件 | – | ○ | ○ | ○ | ○ | ○ |
| 內存模塊 | – | ○ | ○ | ○ | ○ | ○ |
| 處理器模塊 | – | ○ | ○ | ○ | ○ | ○ |
| 鍵盤 | – | ○ | ○ | ○ | ○ | ○ |
| 調製解調器 | – | ○ | ○ | ○ | ○ | ○ |
| 監視器 | – | ○ | ○ | ○ | ○ | ○ |
| 滑鼠 | – | ○ | ○ | ○ | ○ | ○ |
| 電纜組合件 | – | ○ | ○ | ○ | ○ | ○ |
| 電源 | – | ○ | ○ | ○ | ○ | ○ |
| 儲備設備 | – | ○ | ○ | ○ | ○ | ○ |
| 電池匣組合件 | – | ○ | ○ | ○ | ○ | ○ |
| 電池 | – | ○ | ○ | ○ | ○ | ○ |
| 有mech的電路卡 | – | ○ | ○ | ○ | ○ | ○ |
| 無mech的電路卡 | – | ○ | ○ | ○ | ○ | ○ |
| 激光器 | – | ○ | ○ | ○ | ○ | ○ |

備考1.〝超出0.1 wt %〞及〝超出0.01 wt %〞係指限用物質之百分比含量超出百分比含量基準值。

Note1: “exceeding 0.1wt%” and“exceeding 0.01 wt%” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2.〝○〞係指該項限用物質之百分比含量未超出百分比含量基準值。

Note2: “○” indicates that thepercentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3.〝-〞係指該項限用物質為排除項目。

Note3 : The “-“ indicates thatthe restricted substance corresponds to the exemption.

# Index


2.5-inch hard disk drive backplane
  installation 246
  removal 245
3.5-inch hard disk drive backplane
  installation 249
  removal 248
3.5-inch hard disk drive backplate assembly
  installation 252
  removal 251


## A


ABR, automatic boot recovery 165
ac power LED 20
acoustical noise emissions 5
Active Energy Manager plug-in 11
adapter on PCI-X bracket, installation 73, 218
adapter on PCI-X bracket, removal 215
adapter, installation 70, 216
adapter, removal 213
administrator
  password 113
Advanced Settings Utility program
  overview 119
air baffle, install 190
air baffle, removal 41, 189
air baffle, replacement 99
applying current firmware
  using best practices 25
ASM event log 11, 142
assertion event, system-event log 141
assistance, getting 1147
attention notices 5
Australia Class A statement 1154
automatic boot recovery (ABR) 165
availability, server 15


## B


backup firmware
  starting 113
battery
  installing 235
  removal 233
bays 5
before you install a legacy operating system 106
best practices
  use to apply current firmware and device-driver updates 25
bezel media door, close 183
bezel media door, open 38, 181
bezel, install 187
bezel, removal 186
blue screen capture features 11
blue-screen capture feature
  overview 11, 115
blue-screen feature 115
Boot Manager 113
Boot Manager program 104
Business Partners instructions 25
button, presence detection 18


## C


cable
  internal routing 312
cable, connection 100
cache 5
call home feature
  Lenovo Electronic Service Agent 146
call home tools 146
Canada Class A electronic emission statement 1154
caution statements 5
checkout procedure 130
  performing 131
China Class A electronic emission statement 1156
Class A electronic emission notice 1154
closing
  bezel media door 183
collecting data 127
completing
  options installation 96
components
  server 26, 167
configuration
  cable routing 317
  information 103
  instructions 103
  Nx-boot failure 165
  ServerGuide Setup and Installation CD 103
  Setup utility 103
configuration programs 104
configuring
  RAID arrays 118
  with ServerGuide 106
configuring hardware 104
configuring your server 103
connecting
  cable 100
connector
  USB 17
connectors
  Ethernet 20
  Ethernet systems-management 20
  external 29
  front of server 17
  internal 27
  internal cable routing 312
  light path diagnostic panel 20
  on the rear of the server 20
  power supply 20


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rear 20
serial 20
USB 20
video 20
connectors, internal system board 27
contamination, particulate and gaseous 5, 1153
controller
Ethernet 118
controls and LEDs
on the operator information panel 18
controls, LEDs, and power 17
cooling 11
creating a personalized support web page 1149
custom support web page 1149

## D

danger statements 5
data collection 127
dc power LED 20
deassertion event, system-event log 141
device drivers 113
devices
installing 25
devices, static-sensitive
handling guidelines 37
diagnostic
on-board programs, starting 145
tools, overview 131
diagnostics
program overview 144
diagnostics program
DSA Preboot 11
dimensions 5
dimm
installation sequence 63, 265
installing 60, 262
DIMM
memory mirrored channel mode 64, 266
DIMM installation sequence
memory mirrored channel mode 64, 266
rank sparing 65, 267
DIMM, installation 66, 268
DIMMs
removal 261
display problems 153
documentation
Documentation Browser 3
Documentation CD 3
using 1148
documentation cd 3
documentation, updated
finding 4
drive 5
drive bays, internal 47, 194
drives 12
installation 194
removal 194
drives, installation 47
drives, removal 47
DSA 25
edition 144
program, overview 144
test log, viewing 146
text message format 146
DSA data
how to send to Lenovo 26
DSA log 11, 141–142
DSA Portable 131, 144
DSA Preboot 131, 144
DSA Preboot diagnostic program 11
DSA, sending data 1148
DVD
cable routing 317
drive activity LED 17
drive DVD LED 17
eject button 17
DVD drive
problems 147
DVD drive, installation 57, 206
DVD drive, removal 205
Dynamic System Analysis 25
Dynamic System Analysis (DSA) Preboot diagnostics program 11

## E

electrical equipment, servicing vii
electrical input 5
electronic emission Class A notice 1154
embedded hypervisor
using 117
enabling
Features on Demand
Ethernet software 118
RAID software 118
environment 5
error codes and messages
IMM2 331
UEFI (POST) 965
error messages 147
error messages, IMM2 331
error symptoms 153
DVD drive 147
general 148
GPU/VGA adapter 148
hard disk drive 149
hypervisor flash device 149
intermittent 150
keyboard 150
memory 151
microprocessor 152
monitor 153
mouse 150
network connection 154
optional devices 155
power 155
RAID/storage adapter 157
serial port 157
ServerGuide 158

software 159
USB port 160
USB-device 150
errors
format, DSA code 146
Ethernet 11
controller 160
link status LED 20
systems-management connector 20
Ethernet activity
LED 18, 20
Ethernet connector 20
Ethernet controller configuration 104
Ethernet support 11
European Union EMC Directive conformance statement 1154
event log 141
viewing 142
event log, POST 141
event log, system 141
event logs
clearing 143
event logs, methods for viewing 142
events, IMM2 331
expansion bays 5
external connectors 29


## F


fan
simple-swap 5
fan cage assembly, installation 274
fan cage assembly, removal 42, 272
fan cage assembly, replacement 97
fan cage power
cable routing 330
fan, installation 44, 230
fan, removal 228
fans 5, 11
FCC Class A notice 1154
features 5
ServerGuide 106
features, remote presence and blue-screen 11
finding
updated documentation 4
firmware updates 1, 35
firmware updates best practices 25
firmware, server, recovering 163
firmware, updating 103
flash power module
installing 75, 221
flash power module holder, install 192
flash power module holder, removal 191
flash power module, removal 220
front view
connectors 17
LED location 17
front view of the server 17


## G


gaseous contamination 5, 1153
general
problems 148
Germany Class A statement 1154
GPU/VGA adapter
problems 148
grease, thermal 91, 296
guidelines
options installation 35
servicing electrical equipment vii
system reliability 36
trained service technicians vi


## H


handling static-sensitive devices 37
hard disk drive
activity LED 17
backplane cabling 317
backplane connectors 33
connectors
backplane connectors 33
hard disk drive backplane 33
hot-swap SAS or SATA, removing 202
problems 149
status LED 17
types 53, 199–200
hard disk drive, installation 53, 200
hard disk drive, removal 199, 202
hard disk drives
hot-swap SAS or SATA, installation 55, 202
hardware requirements 3
hardware service and support telephone numbers 1149
hardware, configuring 104
head output 5
heat sink retention module, installation 307
heat sink retention module, removal 306
heat sink, installation 83, 288
heat sink, removal 283
help
from the World Wide Web 1148
from World Wide Web 1148
sending diagnostic data 1148
sources of 1147
hot-swap drives, SAS or SATA
removing 202
hot-swap drives, SAS or SATA, installation 55, 202
hot-swap power supply
removal 254
hot-swap power supply, installation 92, 255
how to send DSA data to Lenovo 26
humidity 5
hypervisor flash device
problems 149
hypervisor flash device, installation 95, 271
hypervisor flash device, removal 270


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# I


IBM Systems Director 11
IBM, next generation technology 11
IMM2 104
IMM2 error messages 331
IMM2 events 331
IMM2 heartbeat
  LED 140
IMM2 host name 115
IMM2 web interface 116
important notices 5, 1152
in-band
  automated boot recovery method 164
  manual recovery method 163
information center 1148
inspecting for unsafe conditions vi
installation 1
installation guidelines 35
installation sequence
  dimm 63, 265
installing
  2.5-inch hard disk drive backplane 246
  3.5-inch hard disk drive backplane 249
  3.5-inch hard disk drive backplate assembly 252
  adapter 70, 216
  air baffle 190
  an adapter on PCI-X bracket 73, 218
  battery 235
  bezel 187
  dimm 60, 262
  DIMM 66, 268
  drives 47, 194
  DVD drive 57, 206
  fan 44, 230
  fan cage assembly 274
  flash power module 75, 221
  flash power module holder 192
  heat sink 83, 288
  heat sink retention module 307
  hot-swap drives 55, 202
  hot-swap hard disk drive 53, 200
  hot-swap power supply 92, 255
  hot-swap SAS or SATA drives 55, 202
  hypervisor flash device 95, 271
  left-side cover 185
  light path diagnostics assembly 241
  memory 60, 262
  microprocessor 2 expansion board 77, 299
  operator information panel assembly 260
  optional ServeRAID adapter memory module 74, 224
  PCI-X bracket 68, 226
  power cut-off switch assembly 277
  power paddle card 280
  RAID adapter battery holder 192
  RAID adapter remote battery 75, 221
  SAS/SATA 8 Pac HDD option 210
  second microprocessor 83, 288
  simple-swap drives 56, 204
  system board 309
  tape drive 59, 209
  USB cable and light path diagnostics assembly 238
  USB cable assembly 244
installing options 25
instructions for IBM Business Partners 25
instructions for Lenovo Business Partners 25
integrated baseboard management controller 23
integrated functions 5
integrated management module
  event log 11
  overview 11
  using 114
integrated management module II
  event log 142
Integrated Management Module II (IMM2)
  event log 141
  programs 104
intermittent
  problems 150
internal cable routing 312
internal connectors 27
internal, system board connectors 27
introduction 1
IP address for the IMM2 116
IPMI event log 11, 141–142
IPMItool 142


# J


Japan Class A electronic emission statement 1155
Japanese statement for ac power consumption for JEITA harmonics guideline 1156
Japanese statement of compliance for products less than or equal to 20A per phase for JEITA harmonics guideline 1156
jumper
  UEFI boot recovery 163
jumpers
  system board 30


# K


Korea Class A electronic emission statement 1156


# L


LED
  ac power 20
  dc power 20
  DVD drive activity 17
  Ethernet activity 18, 20
  Ethernet-link status 20
  hard disk drive activity 17
  hard disk drive status 17
  IMM2 heartbeat 140
  power supply error 20
  power-on 18
  RTMM heartbeat 140
  system information 18
  system locator 18
  system pulse 140
  system-error 18

LEDs
front of server 17
light path diagnostic panel 20
light path diagnostics 134
light path diagnotics
power-supply 139
on the system board 31
operator information panel 18, 134
power-supply 139
power-supply detected problems 139
left-side cover, install 185
left-side cover, removal 40, 184
left-side cover, replacement 99
legacy operating system
requirement 106
Lenovo Electronic Service Agent 146
Lenovo XClarity Administrator 11
updating 119
light path diagnostic panel 17
light path diagnostics 11, 134
cable routing 314
LEDs 135
panel 134
panel, LEDs and connectors 20
light path diagnostics assembly
installation 241
removal 239
light path diagnostics LEDs 135
light path diagnostics, viewing without power 134
local area network (LAN) 11
logging 116

## M

management, system 11
memory 11
installing 60, 262
specifications 5
two-DIMM-per-channel (2DPC) 60, 262
memory module
removing 261
memory rank sparing
description 65, 267
memory sparing 11
memory support 11
menu choices
Setup utility 107
messages, error
POST 965
method 164
methods, viewing event logs 142
microprocessor 11
problems 152
specifications 5
microprocessor 2 expansion board, installation 77, 299
microprocessor 2 expansion board, removal 297
mirroring 11
model name
location 162

## N

New Zealand Class A statement 1154
next generation technology 11
NMI button 20
noise emissions 5
NOS installation
with ServerGuide 106
without ServerGuide 107
notes 5
notes, important 1152
notices 1151
electronic emission 1154
FCC, Class A 1154
notices and statements 5
Nx-boot failure 165

## O

obtaining 115–116
online documentation 1
online publications 4
opening
bezel media door 38, 181
operating system 3
operating-system event log 11, 141–142
operator information panel 17
assembly, installing 260
assembly, removing 259
cable routing 313
controls and LEDs 18
LEDs 18, 134
optional device problems 155
optional ServeRAID adapter memory module, installation 74, 224
optional ServeRAID adapter memory module, removal 223
options
installing 25
options installation, completing 96
out-of-band 164

## P

particulate contamination 5, 1153
parts listing 167
parts, structural 176
password 111
administrator 111
power-on 111
password, power-on
switch on system board 112
PCI
slot 1 20
slot 2 20
slot 3 20
slot 4 20
slot 5 20
slot 6 20
slot 7 20

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slot 8 20
PCI expansion slots 5
PCI-X bracket, installation 68, 226
PCI-X bracket, removal 225
People's Republic of China Class A electronic emission statement 1156
policy option 113
POST
error codes 965
event log 142
POST event log 141
POST, intro 143
power 113
cable routing 312
power-control button 17
requirement 5
specifications 5
supply 5
power cords 177
power cut-off switch assembly, installation 277
power cut-off switch assembly, removal 276
power features
of the server 23
power on and working inside the server 37
power paddle card, install 280
power paddle card, removal 278
power problems 155, 160
power supplies
redundancy support 11
power supply 5
power-control button 17
power-control-button shield 17
power-on LED 18, 23
power-on self-test 143
power-supply
LEDs 139
LEDs and detected problems 139
power-supply LEDs 139
Preboot, DSA diagnostics program 11
presence detection button 18
problems 153
DVD drive 147
Ethernet controller 160
general 148
GPU/VGA adapter 148
hard disk drive 149
hypervisor flash device 149
intermittent 150
keyboard 150
memory 151
microprocessor 152
monitor 153
mouse 150
network connection 154
optional devices 155
power 155, 160
RAID/storage adapter 157
serial port 157
ServerGuide 158
software 159
undetermined 161
USB port 160
procedure, checkout 131
product service, Taiwan 1149

# R

RAID adapter battery holder, install 192
RAID adapter battery holder, removal 191
RAID adapter remote battery
installing 75, 221
RAID adapter remote battery, removal 220
RAID arrays
configuring 118
RAID/storage adapter problems 157
rank sparing
DIMM population sequence 65, 267
rank sparing mode 65, 267
RAS features, server 15
rear view 20
of the server 20
recovering the server firmware 163
redundancy support
power supplies 11
redundant
cooling 11
Ethernet connection 11
vNIC 11
Redundant
Ethernet capabilities 15
hot-swap power supplies 15
reliability, server 15
remind button 17
remote presence feature
using 115
removing
2.5-inch hard disk drive backplane 245
3.5-inch hard disk drive backplane 248
3.5-inch hard disk drive backplate assembly 251
3.5-inch hot-swap hard disk drive 202
adapter 213
air baffle 41, 189
an adapter on PCI-X bracket 215
battery 233
bezel 186
components 181
drives 47, 194
DVD drive 205
fan 228
fan cage assembly 42, 272
flash power module 220
flash power module holder 191
heat sink 283
heat sink retention module 306
hot-swap hard disk drive 199
hot-swap power supply 254
hypervisor flash device 270
left-side cover 40, 184
light path diagnostics assembly 239
memory modules 261

microprocessor 2 expansion board 297
operator information panel assembly 259
optional ServeRAID adapter memory module 223
PCI-X bracket 225
power cut-off switch assembly 276
power paddle card 278
RAID adapter battery holder 191
RAID adapter remote battery 220
SAS/SATA 8 Pac HDD option 210
second microprocessor 283
server components 184
simple-swap drives 204
system board 307
tape drive 208
USB cable and light path diagnostics assembly 237
USB cable assembly 242
removing and replacing
removing
structural parts 184
server components 184
structural parts 184
removing, DIMMs 261
Replaceable server components 167
replacing
air baffle 99
components 181
fan cage assembly 97
left-side cover 99
server components 184
structural parts 184
Tier 1 CRUs 193
Tier 1 CRUs, replacement 193
Tier 2 CRUs 278
requirements
hardware 3
software 3
reset button 17
returning
component 181
device 181
RTMM heartbeat
LED 140
Russia Class A electronic emission statement 1156


## S


safety v
Safety Information 5
safety statements v, viii
SAS or SATA hot-swap drives, installation 55, 202
SAS power cable routing 317
SAS/SATA 8 Pac HDD option, installation 210
SAS/SATA 8 Pac HDD option, removal 210
second microprocessor, installation 83, 288
second microprocessor, removal 283
sending diagnostic data 1148
sending DSA data
to Lenovo 26
serial connector 20
serial number
location 162
serial port problems 157
server
offerings 11
power features 23
turning it off 23
turning it on 23
working inside with the power on 37
server , backup firmware
starting 113
server components 26, 167
server configuration, updating 102
server controls, LEDs, and power 17
server firmware, recovering 163
server rear view 20
server shutdown 23
server, front view 17
ServeRAID support 11
ServerGuide
features 106
NOS installation 106
setup 106
Setup and Installation CD 103
using 105
ServerGuide CD 11
serverproven 35
service and support
before you call 1147
hardware 1149
software 1149
service bulletins 130
serviceability, server 15
servicing electrical equipment vii
Setup utility 103–104
menu choices 107
starting 107
using 107
shutting down the server 23
simple-swap drives, installation 56, 204
simple-swap drives, removal 204
size 5
slots
PCI expansion 5
SMP 11
software problems 159
software requirements 3
software service and support telephone numbers 1149
specifications 5
stabilizing feet, turn 188
standby mode 23
starting
Setup utility 107
the backup firmware 113
statements and notices 5
static-sensitive devices
handling guidelines 37
structural parts 176
support web page, custom 1149
SW4 switch block description 30
switch block 30


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switches
  system board 30
symmetric multiprocessing 11
system
  error LED front 18
  information LED 18
  locator LED, front 18
system board
  external connectors 29
  internal connectors 27
  LEDs 31
  power-on password switch 112
  switches and jumpers 30
system board internal connectors 27
system board, installation 309
system board, removal 307
system event log 142
system pulse LEDs 140
system reliability guidelines 36
system-event log 141
system-event log, assertion event 141
system-event log, deassertion event 141
Systems Director
  systems management tool 16
  updating 119
systems management 11
  Ethernet connector 20
systems management tool
  Systems Director 16

## T

table drive
  cable routing 314
Taiwan BSMI RoHS declaration 1158
Taiwan Class A electronic emission statement 1157
Taiwan product service 1149
tape drive, installation 59, 209
tape drive, removal 208
telecommunication regulatory statement 1153
telephone numbers 1149
temperature 5
test log, viewing 146
thermal grease 91, 296
Tier 2 CRUs, replacement 278
TOE 5
tools, call home 146
tools, diagnostic 131
ToolsCenter for System x and BladeCenter 35
trademarks 1152
trained service technicians, guidelines vi
troubleshooting 127
  symptom 147
turning
  stabilizing feet 188
turning off the server 23
  integrated baseboard management controller 23
turning on the server 23
two-DIMM-per-channel (2DPC)
  requirement 60, 262

## U

UEFI
  boot recovery jumper 163
  error codes 965
undetermined problems 161
undocumented problems 129
United States FCC Class A notice 1154
Universal Serial Bus (USB) problems 160
unsafe conditions, inspecting for vi
UpdateXpress 103, 113
updating
  firmware 103
  Lenovo XClarity Administrator 119
  server configuration 102
  Systems Director 119
  Universal Unique Identifier (UUID) 120, 123
USB
  connector 17, 20
USB cable and light path diagnostics assembly
  installation 238
  removal 237
USB cable assembly
  installation 244
  removal 242
using
  embedded hypervisor 117
  integrated management module 114
  Setup utility 107
  the remote presence feature 115
using best practices
  to apply firmware and device-driver updates 25
Utility program
  Advanced Settings 119
utility, Setup 104
  starting 107
  using 107

## V

video connector
  rear 20
video controller, integrated
  specifications 5
viewing event log 142
VMware Hypervisor support 104

## W

Wake on LAN feature 23
weight 5
what the server offers 11
working inside with the power on 37

## X

x3500
  introduction 1