IBM System x3550 M5
Type 5463

Installation and Service Guide

IBM System x3550 M5
Type 5463

Installation and Service Guide

Note

Before using this information and the product it supports, read the general information in Appendix D, "Getting help and technical assistance," on page 821, "Notices" on page 825, the *Warranty Information* document, and the *Safety Information* and *Environmental Notices and User Guide* documents on the IBM *Documentation* CD.

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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.

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ᠤᠨᠱᠢᠬᠤ ᠤᠰᠤᠭ ᠪᠠᠢᠭᠤᠯᠤᠭᠴᠢᠶᠠᠨ ᠤ ᠮᠡᠳᠡᠭᠡᠯᠡᠯ ᠢ ᠤᠩᠱᠢᠵᠤ ᠪᠠᠢᠭᠠᠭᠠᠷᠠᠢ ᠤᠷᠤᠨ ᠳᠤ ᠤᠭᠰᠠᠷᠤᠭᠠᠷᠠᠢ᠃

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.

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་སྒྲིལ་མ་བྱས་གོང་། ·སྐོར་གྱི་ཡིད་གཟབ་
བྱ་འདུ་མིན་ཡོད་པའི་འཛོད་སྣེར་བལྟ་དགོས།

Bu ürünü kurmadan önce güvenlik bilgilerini okuyun.

.ماەزكۇر ماەھسۇلاتنى ئورنىتىشتىن بۇرۇن بىخەتەرلىك ئۇچۇرلىرىنى ئوقۇپ چىقىڭ

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

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 IBM® 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

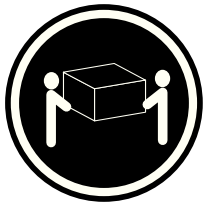
Some laser products contain an embedded Class 3A or Class 3B laser diode. Note the following.

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

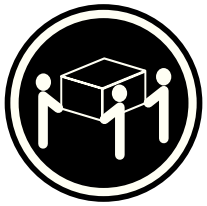
Class 1 Laser Product
Laser Klasse 1
Laser Klass 1
Luokan 1 Laserlaite
Appareil À Laser de Classe 1

Statement 4

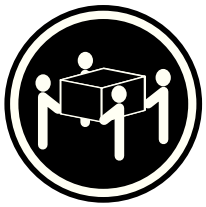
CAUTION:
Use safe practices when lifting.



≥ 18 kg (39.7 lb)



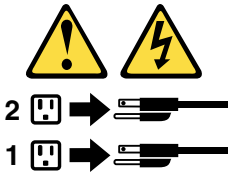
≥ 32 kg (70.5 lb)



≥ 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 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.

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.

Rack Safety Information, Statement 2

DANGER

- **Always lower the leveling pads on the rack cabinet.**
- **Always install stabilizer brackets on the rack cabinet.**
- **Always install servers and optional devices starting from the bottom of the rack cabinet.**
- **Always install the heaviest devices in the bottom of the rack cabinet.**

Chapter 1. The IBM System x3550 M5 server

This publication contains information and instructions for setting up your IBM System x3550 M5 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 "Installing optional devices" on page 121 for installing optional hardware devices, updating firmware and device drivers, and completing the installation, IBM Business Partners must also complete the steps in "Instructions for IBM Business Partners" on page 125.

The IBM System x3550 M5 server is a 1-U-high[1] rack model server for high-volume network transaction processing. This high-performance, multicore server is ideally suited for networking environments that require superior microprocessor performance, input/output (I/O) flexibility, and high manageability.

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, see the *Warranty Information* document that comes with the server.

The server contains IBM X-Architecture® technologies, which help increase performance and reliability. For more information, see "What your server offers" on page 12 and "Reliability, availability, and serviceability" on page 15.

You can obtain up-to-date information about the server and other IBM server products at http://www.ibm.com/systems/x. At http://www.ibm.com/support/mysupport/, you can create a personalized support page by identifying IBM 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 IBM 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 IBM client reference program, see http://www.ibm.com/ibm/clientreference/.

The hot-swap server configurations include eight 2.5-inch hot-swap hard disk drive models, ten 2.5-inch hot-swap hard disk drive models, twelve 2.5-inch hot-swap hard disk drive models (two located at the rear) or four 3.5-inch hot-swap hard disk drive models. The simple-swap server configurations include eight 2.5-inch simple-swap hard disk drive models or four 3.5-inch simple-swap hard disk drive models. The IBM System x3550 M5 Type 5463 server supports 2.5-inch hot-swap Serial Attached SCSI (SAS) or SATA hard disk drives, 2.5-inch simple-swap SATA

1. Racks are marked in vertical increments of 1.75 inches each. Each increment is referred to as a unit, or a "U". A 1-U-high device is approximately 1.75 inches tall.

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hard disk drives, 3.5-inch hot-swap Serial Attached SCSI (SAS) or SATA hard disk drives or 3.5-inch simple-swap SATA hard disk drives.

Note:

- The illustrations in this document might differ slightly from your model.
- The ten 2.5-inch simple-swap hard disk drive model is not supported.

The following illustration shows a server with eight 2.5-inch hot-swap hard disk drive bays.

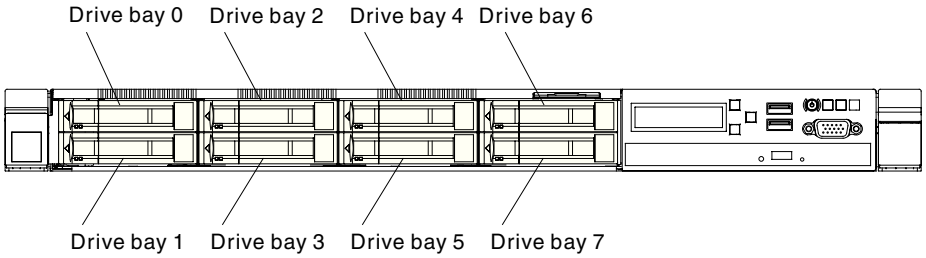


Figure 1. Eight 2.5-inch hot-swap hard disk drive model front view

The following illustration shows a server with ten 2.5-inch hot-swap hard disk drive bays.

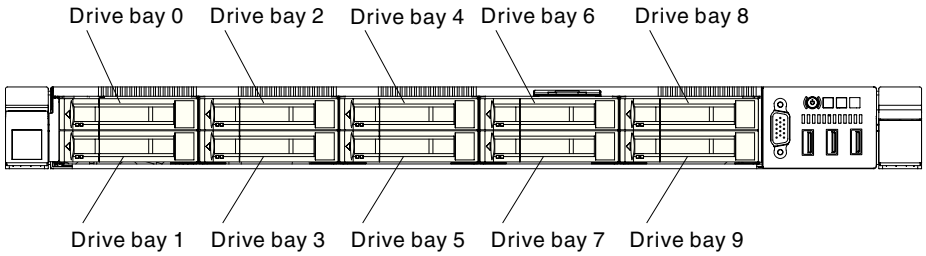


Figure 2. Ten 2.5-inch hot-swap hard disk drive model front view

The following illustrations shows a server with twelve 2.5-inch hot-swap hard disk drive bays (two located at the rear).

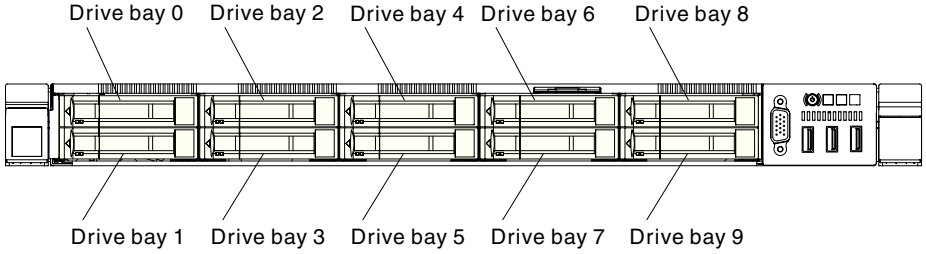


Figure 3. Twelve 2.5-inch hot-swap hard disk drive model front view

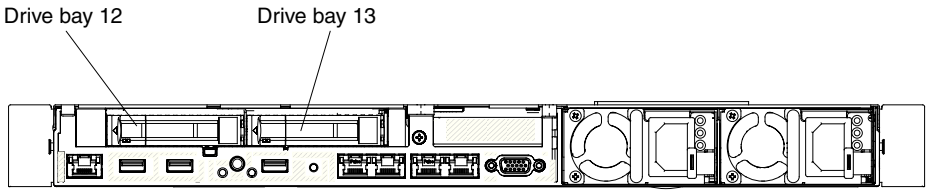


Figure 4. Twelve 2.5-inch hot-swap hard disk drive model rear view

The following illustration shows a server with four 3.5-inch hot-swap hard disk drive bays.

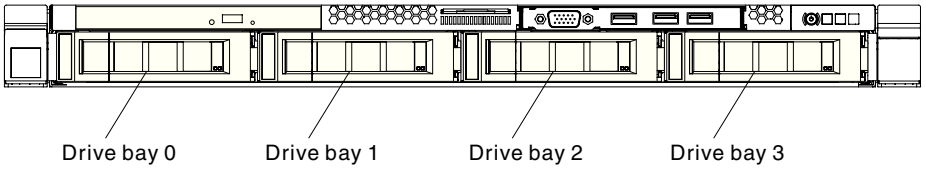


Figure 5. Four 3.5-inch hot-swap hard disk drive model front view

The following illustration shows a server with eight 2.5-inch simple-swap hard disk drive bays.

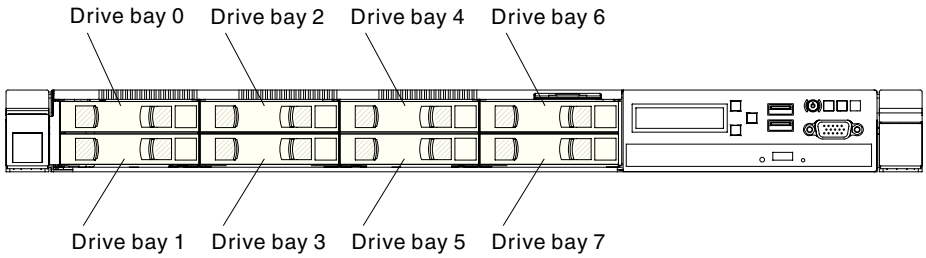


Figure 6. Eight 2.5-inch simple-swap hard disk drive model front view

The following illustration shows a server with four 3.5-inch simple-swap hard disk drive bays.

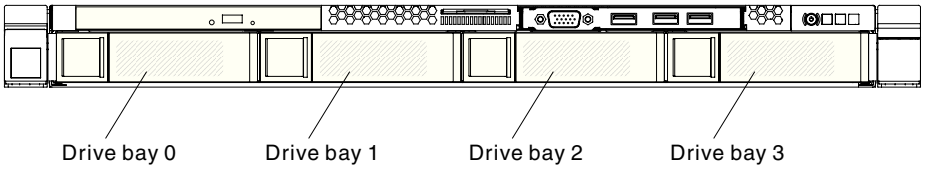


Figure 7. Four 3.5-inch simple-swap hard disk drive model front view

If firmware and documentation updates are available, you can download them from the IBM 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.ibm.com/supportportal/.

Record information about the server in the following table.

Product name	IBM System x3550 M5 server
Machine type	Type 5463
Model number	_____
Serial number	_____

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.

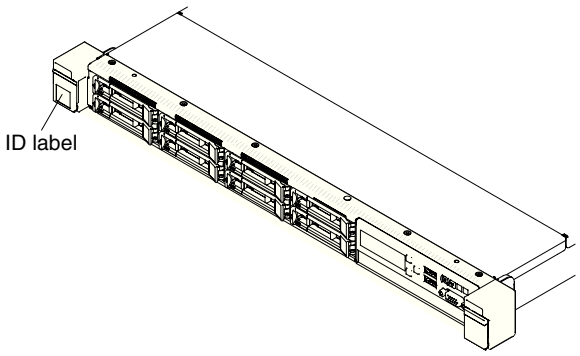


Figure 8. ID label

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 IBM Service Information website. The IBM 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 (http://ibm.co/1tugHQX):

Figure 9. QR code

You can download an IBM *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.ibm.com/systems/info/x86servers/serverproven/compat/us.

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

The IBM Documentation CD

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

Hardware and software requirements

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

- Microsoft Windows XP, Windows 2000, 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

Using 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** 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 IBM *Documentation* CD. It contains translated environmental notices.
- *IBM License Agreement for Machine Code*

  This document is in PDF format on the IBM *Documentation* CD. It provides translated versions of the *IBM 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 IBM product.
- *Licenses and Attributions Documents*

  This document is in PDF format on the IBM *Documentation* CD. It provides the open source notices.
- *Rack Installation Instructions*

  This printed document contains instructions for installing the server in a rack and comes with the rack kit.
- *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 IBM *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 IBM Statement of Limited Warranty on the IBM website.

Depending on the server model, additional documentation might be included on the IBM *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 http://publib.boulder.ibm.com/infocenter/toolsctr/v1r0/.

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 IBM website. To check for updates, go to http://www.ibm.com/supportportal/.

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 IBM *System x 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

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):

- Supports up to two Intel Xeon™ E5-2600 v3 series multi-core microprocessors (one installed)
- Level-3 cache
- Two QuickPath Interconnect (QPI) links speed up to 9.6 GT per second

Notes:

- Use the Setup utility program to determine the type and speed of the microprocessors.
- For a list of supported microprocessors, see http://www.ibm.com/systems/info/x86servers/serverproven/compat/us.

Memory (depending on the model):

- Minimum: 4 GB
- Maximum: 1.5 TB
  - 384 GB using registered DIMMs (RDIMMs)
  - 1.5 TB using load reduction DIMMs (LRDIMMs)
- Type:
  - PC4-12800 (DDR4-1600), PC4-14900 (DDR4-1866) or PC4-17000 (DDR4-2133)
  - Single-rank, dual-rank, or quad-rank
  - Registered DIMM (RDIMM) or load reduced DIMM (LRDIMM)
- Slots: 24 dual inline
- Supports (depending on the model):
  - 4 GB, 8 GB and 16 GB registered DIMMs
  - 32 GB and 64 GB load reduction DIMM

Integrated functions:

- Integrated management module 2.1 (IMM2.1), which consolidates multiple management functions in a single chip.
- Broadcom BCM5719 Quad Port Gigabit Ethernet controller with Wake on LAN support
- Seven or six Universal Serial Bus (USB) ports (depending on the model)
  - Two USB ports on the front (one USB 2.0 port and one USB 3.0 port) or three USB ports on the front (two USB 2.0 ports and one USB 3.0 port).
  - Three USB ports on the rear (one USB 2.0 port and two USB 3.0 ports)
  - One internal USB 3.0 port used for Hypervisor USB key
- Four network ports (four 1 Gb Ethernet ports on the system)
- Supports up to one optional ML2 network daughter cards
- One System Management RJ-45 on the rear to connect to a systems management network. This system management connector is dedicated to the integrated management module 2.1 (IMM2.1) functions.
- Optional serial port

Hard disk drive expansion bays (depending on the model):

- Ten 2.5-inch hot-swap hard disk drive bays with option to add two additional rear 2.5-inch hot-swap hard disk drive bays.
- Eight 2.5-inch hot-swap or simple-swap hard disk drive bays.
- Four 3.5-inch hot-swap or simple-swap SATA hard disk drive 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.

SATA optical drives (optional):

- DVD-ROM
- Multi-burner

RAID controllers (depending on the model):

- A ServeRAID M5225 SAS/SATA adapter that provides RAID 0, 1, and 10 with optional FoD RAID 5/50 and SED (Self Encrypting Drive) upgrade.
- A ServeRAID N2215 SAS/SATA adapter that provides RAID 0, 1, and 10 with optional FoD RAID 5/50 and SED (Self Encrypting Drive) upgrade.
- A ServeRAID M1215 SAS/SATA adapter that provides RAID 0, 1, and 10 with optional FoD RAID 5/50 and SED (Self Encrypting Drive) upgrade.

- A ServeRAID M5210 SAS/SATA adapter that provides RAID 0, 1, and 10. Optional upgrade:
  - RAID 5/50 (1 GB Cache) 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 (2 GB Flash) with optional FoD RAID 6/60 and SED upgrade
  - RAID 5/50 (4 GB Flash) with optional FoD RAID 6/60 and SED upgrade
  - FoD RAID 6/60 Upgrade
  - FoD Zero Cache/RAID 5/50
  - FoD Performance Accelerator
  - FoD SSD Caching Enabler

Video controller (integrated into integrated management module 2.1 (IMM2.1)):

- 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 (1U):

- Height: 43 mm (1.7 in.)
- Depth: 735.4 mm (28.95 in.)
- Width: 434.4 mm (17.1 in.)
- Weight: Approximately 19.3 kg (42.55 lb) depending upon configuration

PCI expansion slots:

Supports two PCI riser-card assembly connectors:
- Connector 1 supports low-profile or ML2 cards.
- Connector 2 supports low-profile or half-length, full-height cards.

For a list of the supported PCI riser card assembly configurations, go to "Replacing a PCI riser-card assembly" on page 172 or "Replacing an adapter" on page 180)

Electrical input:

- Sine-wave input (50 - 60 Hz) required
- For 550W/750W/900W Platinum power supply
  - 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: 0.179 kVA
  - Maximum: 1.188 kVA

  Notes:
  1. Power consumption and heat output vary depending on the number and type of optional features installed and the power-management optional features in use.

2. 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. Actual sound-pressure levels in a given location might exceed the average values stated because of room reflections and other nearby noise sources. The noise emission level stated in the declared (upper limit) sound-power level, in bels, for a random sample of system.

Hot-swap fans:

- One microprocessor:
  - 5 dual-motor hot-swap fans for 3.5-inch hard disk drive server models.
  - 6 dual-motor hot-swap fans for 2.5-inch hard disk drive server models.
- Two microprocessors:
  - 7 dual-motor hot-swap fans for 3.5-inch hard disk drive server models.
  - 8 dual-motor hot-swap fans for 2.5-inch hard disk drive server models.

Power supply:

- Up to two hot-swap power supplies for redundancy support
  - 550-watt ac 80 PLUS Platinum
  - 750-watt ac 80 PLUS Platinum
  - 750-watt ac 80 PLUS Titanium
  - 900-watt ac 80 PLUS Platinum

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

Acoustical noise emissions:

- Sound power, idling: 6.5 bels maximum
- Sound power, operating: 6.5 bels maximum

Heat output:

Approximate heat output:

- Minimum configuration: 460.62 Btu per hour (AC 135 watts)
- Maximum configuration: 3490 Btu per hour (AC 1023 watts)

Environment:

Server on:

- Temperature:
  - 5°C to 40°C (41°F to 104°F)
  - Altitude: 0 to 950 m (3,117 ft); decrease the maximum system temperature by 1°C for every 175-m increase in altitude.
- Humidity:
  - Non-condensing: -12°C dew point (10.4°F)
  - Relative humidity: 8% to 85%
- Maximum dew point: 24°C (75.2°F)
- Maximum altitude: 3,050 m (10,000 ft), 5°C to 28°C (41°F to 82°F)

- Maximum rate of temperature change:
  - Tape drives: 5°C/hr (41°F/hr)
  - Hard disk drives: 20°C/hr (68°F/hr)

Server off:

- Temperature: 5°C to 45°C (41°F to 113°F)
- Relative humidity: 8% to 85%
- Maximum dew point: 27°C (80.6°F)

Storage (non-operating):

- Temperature: 1°C to 60°C (33.8°F to 140°F)
- Maximum altitude: 3,050 m (10,000 ft)
- Relative humidity: 5% to 80%
- Maximum dew point: 29°C (84.2°F)

Shipment (non-operating):

- Temperature: -40°C to 60°C (-40°F to 140°F)
- Maximum altitude: 10,700 m (35,105 ft)
- Relative humidity: 5% to 100%
- Maximum dew point: 29°C (84.2°F)

Attention:

- Design to ASHRAE Class A3, ambient of 40°C, with relaxed support:
  - Support cloud like workload with no performance degradation acceptable (Turbo-Off).
  - Under no circumstance, can any combination of worst case workload and configuration result in system shutdown or design exposure at 40°C.
- Specific processors supported environment:
  - Processor E5-2699 v3, E5-2698 v3, E5-2697 v3, E5-2690 v3, E5-2667 v3, E5-2643 v3, E5-2637 v3 are not supported with rear hard disk drive installed.
  - Processor E5-2699 v3, E5-2698 v3, E5-2697 v3, E5-2667 v3, E5-2643 v3, E5-2637 v3 are not supported at 3.5" hard disk drive configuration.
- Chassis is powered on.
- A3 - Derate maximum allowable temperature 1°C/175 m above 950 m.
- The minimum humidity level for class A3 is the higher (more moisture) of the -12°C dew point and the 8% relative humidity. These intersect at approximately 25°C. Below this intersection (~25°C) the dew point (-12°C) represents the minimum moisture level, while above it relative humidity (8%) is the minimum.
- Moisture levels lower than 0.5°C DP, but not lower -10 °C DP or 8% relative humidity, can be accepted if appropriate control measures are implemented to limit the generation of static electricity on personnel and equipment in the data center. All personnel and mobile furnishings and equipment must be connected to ground via an appropriate static control system. The following items are considered the minimum requirements:
  - Conductive materials (conductive flooring, conductive footwear on all personnel that go into the datacenter, all mobile furnishings and equipment will be made of conductive or static dissipative materials).
  - During maintenance on any hardware, a properly functioning wrist strap must be used by any personnel who contacts IT equipment.

- 5°C/hr for data centers employing tape drives and 20°C/hr for data centers employing disk drives.
- Chassis is removed from original shipping container and is installed but not in use, for example, during repair, maintenance, or upgrade.
- The equipment acclimation period is 1 hour per 20°C of temperature change from the shipping environment to the operating environment.
- Condensation is acceptable, but not rain

What your server offers

This section introduces features and technologies the server uses and provides.

- **Active Energy Manager**

  The IBM Active Energy Manager solution is an IBM Systems Director plug-in 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?topic=%2Fcom.ibm.director.main.helps.doc%2Ffqm0_main.html or see http://www.ibm.com/systems/management/director/downloads.html.

- **Dynamic System Analysis (DSA)**

  The server comes with the IBM Dynamic System Analysis (DSA) Preboot diagnostic program. 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 (IMM) event log (as the ASM event log), and the operating-system event logs. You can send the DSA log as a file to IBM 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 77.

- **Features on Demand**

  If a Features on Demand feature is integrated in the server or in an optional device that is installed in the server, you can purchase an activation key to activate the feature. For information about Features on Demand, see /http://www.ibm.com/systems/x/fod/.

- **IBM *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 38.

- **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 more information, see the IBM Systems Director Information Center at http://pic.dhe.ibm.com/infocenter/

director/pubs/index.jsp?topic=%2Fcom.ibm.director.main.helps.doc%2Ffqm0_main.html and "IBM Systems Director" on page 17.

- **Integrated management module 2.1 (IMM2.1)**

  The integrated management module 2.1 (IMM2.1) combines service processor functions, video controller, and remote presence and blue-screen capture features in a single chip. The IMM provides advanced service-processor control, monitoring, and alerting function. If an environmental condition exceeds a threshold or if a system component fails, the IMM lights LEDs to help you diagnose the problem, records the error in the IMM event log, and alerts you to the problem. Optionally, the IMM also provides a virtual presence capability for remote server management capabilities. The IMM 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

  Some of the features that are unique to the IMM are enhanced performance, higher-resolution remote video, expanded security options, and Feature on Demand enablement for hardware and firmware options.

  For additional information, see "Using the integrated management module" on page 47 and the Integrated Management Module II User's Guide at www.ibm.com/support/entry/portal/docdisplay?lndocid=MIGR-5089484&brandind=5000008.

- **IBM Enterprise X-Architecture technology**

  IBM X-Architecture technology combines proven, innovative IBM designs to make your Intel-processor-based server powerful, scalable, and reliable.

- **Integrated network support**

  The server comes with an integrated quad-port Broadcom 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 52.

- **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. You can enable TPM support through the Setup utility under the **System Security** menu option.

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

  The hot-swap server models support a maximum of twelve 2.5-inch (two located at the rear) or four 3.5-inch hot-swap Serial Attached SCSI (SAS) hard disk drives or hot-swap Serial ATA (SATA) hard disk drives. The simple-swap server models support a maximum of eight 2.5-inch or four 3.5-inch simple-swap SATA hard disk 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 server can support up to 1536 GB of system memory. The server provides 24 dual inline memory module (DIMM) connectors. The server memory controller supports error correcting code (ECC) for PC4-12800 (DDR4-1600), PC4-14900

(DDR4-1866), or PC4-17000 (DDR4-2133), DDR4 (fourth-generation double-data-rate), synchronous dynamic random access memory (SDRAM) 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 the operator information panel or LCD operating panel assembly (see “Operator information panel” on page 20 or“LCD operating panel assembly” on page 21.
- **Mobile access to IBM 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 IBM Service Information website. The IBM 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 IBM System x3550 M5 server,” on page 1.
- **Multi-core processing**

  The server supports up to two Intel Xeon™ E5-2600 v3 series multi-core microprocessors. The server comes with a minimum of one microprocessor.
- **PCI adapter capabilities**

  The server has two PCI interface slots. See “Replacing an adapter” on page 180 for detailed information.
- **Redundant connection**

  The addition of the optional Ethernet adapter 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 adapter is installed on the server, all Ethernet traffic that is associated with the primary connection is automatically switched to the optional redundant Ethernet adapter 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 550-watt, 750-watt, or 900-watt hot-swap power supplies and seven or eight dual-motor hot-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 the minimum of one 550-watt, 750-watt, or 900-watt hot-swap power supply and five or six fans.

  You must install the fourth and sixth fans when you install the second microprocessor in the server. You can order the second optional power supply for power redundancy.

  Note: You cannot mix power supplies that have different wattages in the server.
- **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.
- **SD adapter**

  A raid controller for Secure Digital (SD) media. It has two upstream connections, a USB connection to the server chipset, and an MMC connection to the integrated management module (IMM2.1).

- **Systems-management capabilities**

  The server comes with an Integrated management module 2.1 (IMM2.1). When the IMM is used with the systems-management software that comes with the server, you can manage the functions of the server locally and remotely. The IMM also provides system monitoring, event recording, and network alert capability. The systems-management connector on the rear of the server is dedicated to the IMM. 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**

  IBM System x Server Firmware (server firmware) offers several features, including Unified Extensible Firmware Interface (UEFI) 2.1 compliance; Active Energy Manager 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. UEFI-compliant System x servers are capable of booting UEFI-compliant operating systems, BIOS-based operating systems, and BIOS-based adapters as well as UEFI-compliant adapters.

  Note: The server does not support DOS (Disk Operating System).
- **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 the internal USB connector on the system board. For more information about using the embedded hypervisor, see "Using the embedded hypervisor" on page 51.

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 5463)
- 24-hour support center
- Automatic error retry and recovery
- Automatic restart on nonmaskable interrupt (NMI)
- Automatic restart after a power failure
- Back up basic input/output system switching under the control of the integrated management module (IMM)
- Built-in monitoring for fan, power, temperature, voltage, and power-supply redundancy
- Cable-presence detection on most connectors
- Chipkill memory protection
- Double-device data correction (DDDC) 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
- Integrated Management Module (IMM)
- Memory mirroring and memory sparing support
- Memory error correcting code and parity test
- Memory down sizing (non-mirrored memory). After a restart of the server after the memory controller detected a non-mirrored uncorrectable error and the memory controller cannot recover operationally, the IMM 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 small computer system interface (SCSI) bus and PCI-E and PCI buses
- Power management: Compliance with Advanced Configuration and Power Interface (ACPI)
- Power-on self-test (POST)
- Predictive Failure Analysis (PFA) alerts on memory, microprocessors, SAS/SATA hard disk drives or solid state drives, fans, power supplies, and VRM
- 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 cards
- Single-DIMM isolation of excessive correctable error or multi-bit error by the Unified Extensible Firmware Interface (UEFI)
- Solid state drives
- Standby voltage for system-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 IMM)
- Systems-management monitoring through the Inter-Integrated Circuit (IC) protocol bus
- Uncorrectable error (UE) detection
- Upgradeable POST, Unified Extensible Firmware Interface (UEFI), diagnostics, IMM 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

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 in IBM and non-IBM x86 platforms.

Through a single user interface, IBM 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 IBM 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 IBM 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 IBM Systems Director, see the IBM Systems Director Information Center at http://pic.dhe.ibm.com/infocenter/director/pubs/index.jsp?topic=%2Fcom.ibm.director.main.helps.doc%2Ffqm0_main.html, and the Systems Management web page at http://www.ibm.com/systems/management, which presents an overview of IBM Systems Management and IBM 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" on page 30.

Front view

The following illustrations show the controls, LEDs, and connectors on the front of your server model. As they are the same for either hot-swap or simple-swap models, only the hot-swap model is used to show the relevant locations.

Note: The ten 2.5-inch simple-swap hard disk drive model is not supported.

Controls, LEDs, and connectors on your server model.

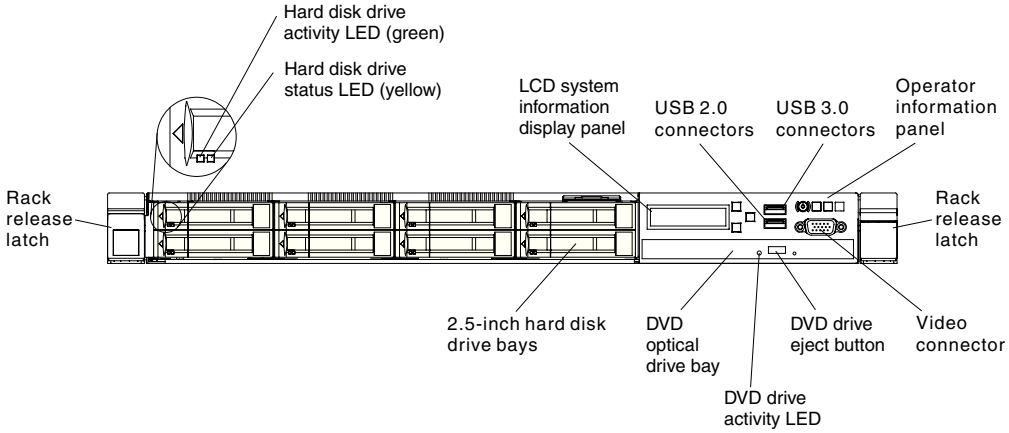


Figure 10. Front view: Eight 2.5-inch hot-swap hard disk drive bay model

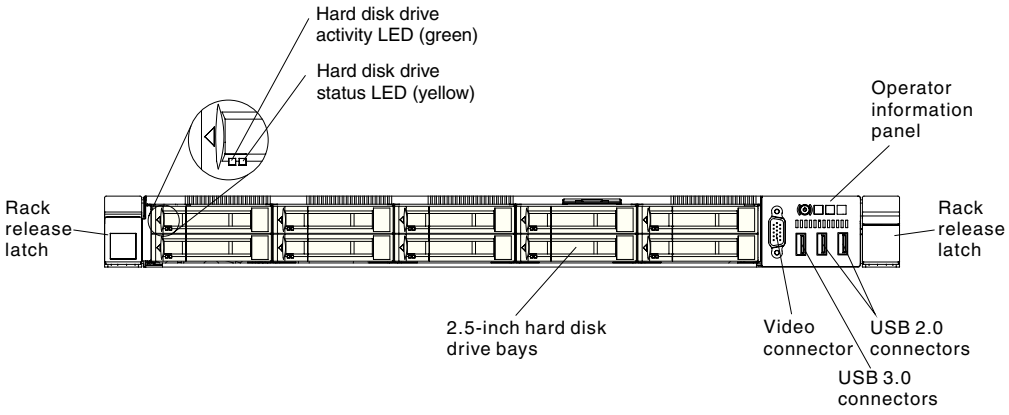


Figure 11. Front view: Ten 2.5-inch hot-swap hard disk drive bay model

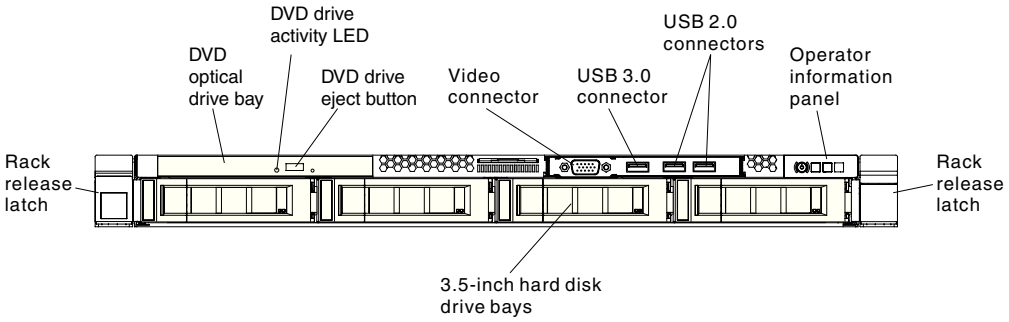


Figure 12. Front view: Four 3.5-inch hot-swap hard disk drive bay model

- **Rack release latches:** Press the latches on each front side of the server to remove the server from the rack.
- **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 IBM 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 eject button:** Press this button to release a DVD or CD from the DVD drive.
- **DVD drive activity LED:** When this LED is lit, it indicates that the DVD drive is in use.
- **Operator information panel:** Use this information for an overview of the connectors, LEDs, and buttons on the server front operator panel.
- **LCD system information display panel:** Use this information for an overview of the LCD system information display panel, which displays various types of information about the server.
- **Video connector:** Connect a monitor to this connector. The video connectors on the front and rear of the server can be used simultaneously.

  Note: The maximum video resolution is 1600 x 1200 at 75 Hz.
- **USB connectors:** Connect a USB device, such as a USB mouse or keyboard to any of these connectors.

Operator information panel

The following illustrations show the controls and LEDs on the operator information panel.

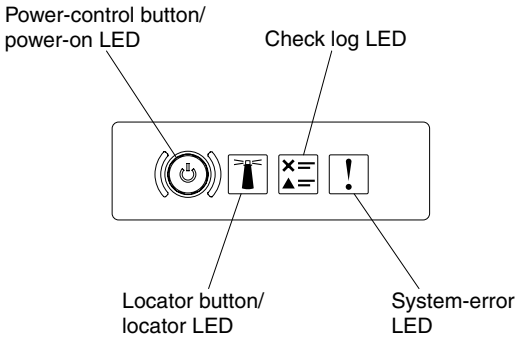


Figure 13. Operator information panel

- **Power-control button and power-on LED:** Press this button to turn the server on and off manually. 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.
- **System-locator button/LED:** Use this blue LED to visually locate the server among other servers. A system-locator LED is also on the rear of the server. This LED is used as a presence detection button as well. You can use IBM Systems Director or IMM web interface to light this LED remotely. This LED is controlled by the IMM. The locator button is pressed to visually locate the server among the others servers.
- **Check log LED:** When this yellow LED is lit, it indicates that a system error has occurred. Check the event log for additional information. See “Event logs” on page 73 for more information about event logs.
- **System-error LED:** When this yellow LED is lit, it indicates that a system error has occurred. A system-error LED is also on the rear of the server. An LED on the operator information panel or on the system board is also lit to help isolate the error. This LED is controlled by the IMM.

LCD operating panel assembly

Use this information for an overview of the LCD operating panel assembly, which displays various types of information about the server.

The LCD operating panel assembly is on the front of the server. It enables you to have quick access to system status, firmware, network, and health information. The following illustration shows the controls on the LCD operating panel assembly.

Note: The LCD operating panel assembly is only installed in the eight 2.5-inch hot-swap server configuration.

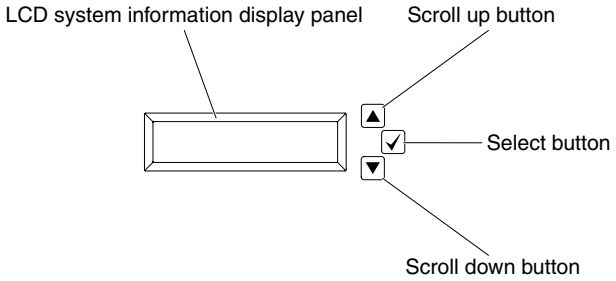


Figure 14. LCD operating panel assembly

- **Scroll up button:**Press this button to scroll up or scroll to the left in the main menu to locate and select the system information that you want displayed.
- **Select button:**Press this button to make your selection from the menu options.
- **Scroll down button:**Press this button to scroll down or scroll to the right in the main menu to location and select the system information that you want displayed.

The following is an illustration of the LCD operating panel assembly menu options flow.

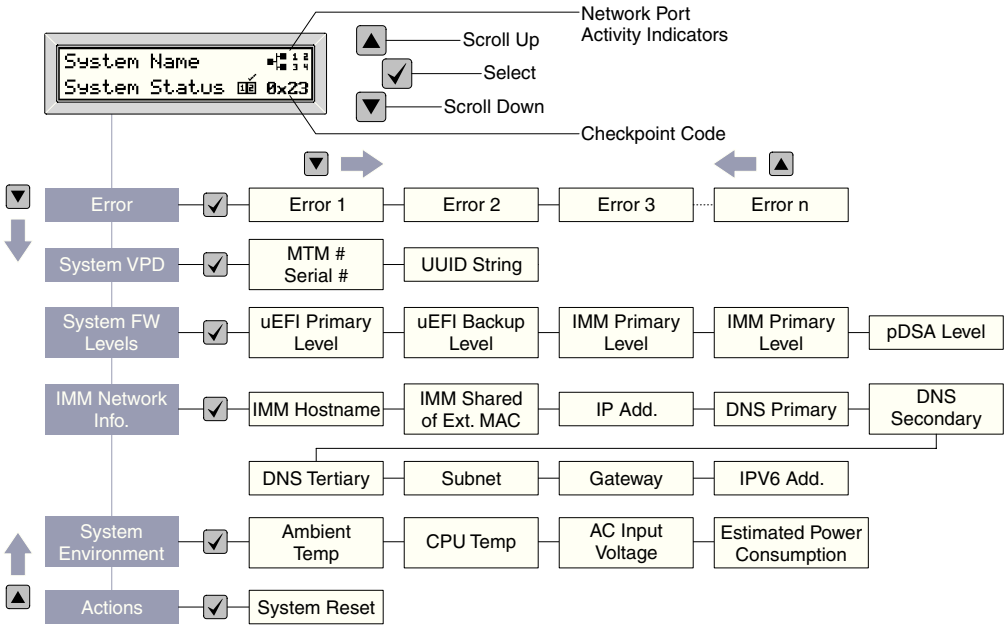


Figure 15. LCD operating panel assembly menu options flow

The following is an example of the information that you will see on the display panel. This example shows the layout of the information in the main menu when the debug feature is enabled.

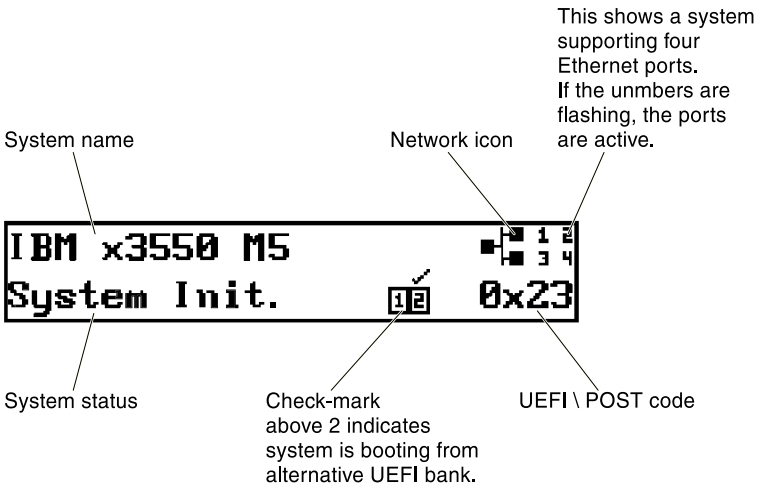


Figure 16. Main menu

When you navigate through the hierarchy of the menu options on the LCD operating panel assembly, the display panel shows the information for that option and the up and down arrows appear on the side of the display panel. When you get to the bottom of the hierarchy of the menu options, only the up arrow will be available. When you are at the top of the hierarchy of the menu options, only the down arrow will be available.

For the errors submenu set, if only one error occurs, the LCD display panel will display that error. If more than one error occurs, the LCD display panel displays the number of errors that have occurred. If no errors occur, the no error menu will be available for navigation.

To move within the menu options, use the Scroll up or Scroll down buttons, then the Select button to enter a submenu set.

The LCD operating panel assembly displays the following types of information about the server:

- IMM system error log (SEL)

  Note: The Scroll Down button will only function for this menu option if errors have occurred. A list of current errors reported by the system will be displayed. To see the system error log (SEL) and get the complete list of errors, go to the IMM web page (see “Logging on to the web interface” on page 50).
- System VPD information:
  - Machine type and serial number
  - Universal Unique Identifier (UUID) string
- System firmware levels:
  - UEFI code level
  - IMM code level
  - pDSA code level
- IMM network information:

- IMM hostname
- IMM dedicated MAC address

  Note: Only the MAC address that is currently in use is displayed (dedicated or shared)
- IMM shared MAC address
- IP v4 information
- IP v6 address

• System environmental information:
- Ambient temperature
- CPU temperature
- AC input voltage
- Estimated power consumption

Rear view

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

The server configuration may be of the following three:

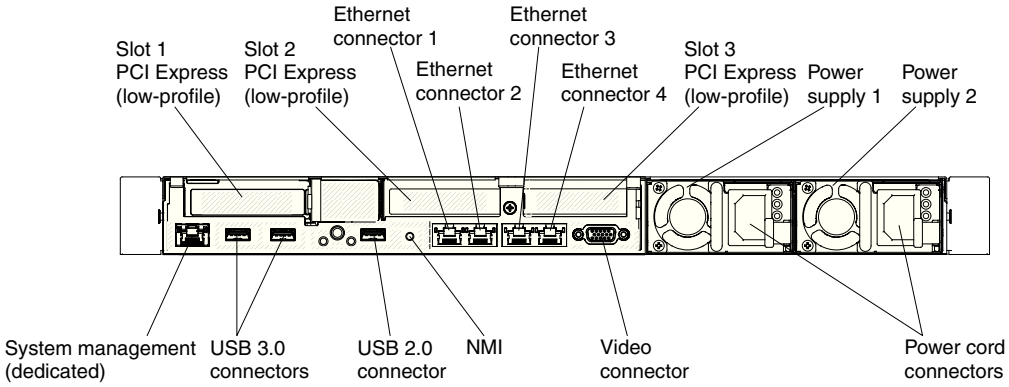


Figure 17. Rear view connector illustration when three low-profile PCI riser card assemblies are installed.

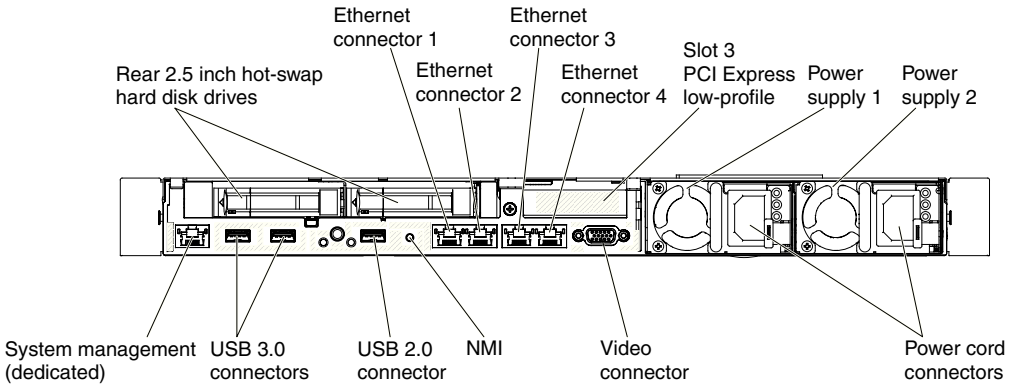


Figure 18. Rear view connector illustration when two additional rear 2.5-inch hot-swap hard disk drive is installed in server. The PCI riser card assembly for this server configuration is low-profile.

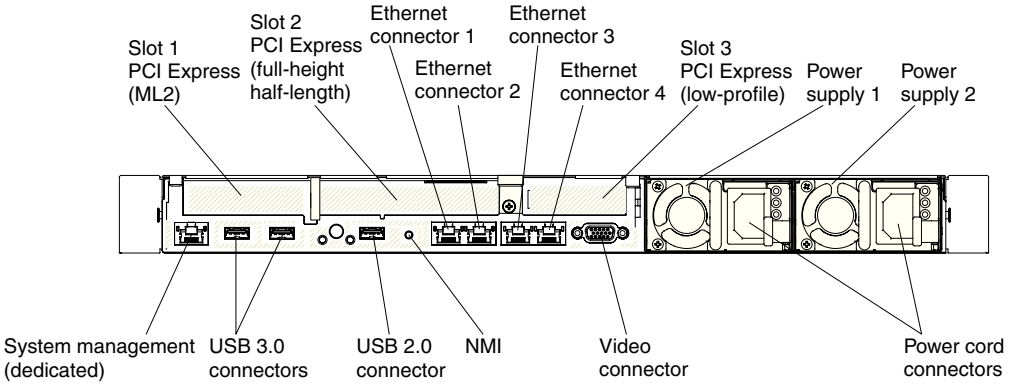


Figure 19. Rear view connector illustration when one ML2, one full-height half length and one low-profile PCI riser card assembly is installed in the server.

- **PCI slot 1:** Depending on the server configuration, insert a low-profile PCI Express or a ML2 adapter into this slot.
- **PCI slot 2:** Depending on the server configuration, insert a half-length, full-height PCI Express or a low-profile PCI Express adapter into this slot.
- **PCI slot 3:** Insert a low-profile PCI Express into this slot.
- **Ethernet connectors:** Use either of these connectors to connect the server to a network.
- **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 (IMM2.1). 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.
- **USB connectors:** Connect a USB device, such as a USB mouse or keyboard to any of these connectors.
- **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 IBM service support). You might have to use a pen or the end of a straightened paper clip to press the button. The NMI button is in the lower left-hand corner on the rear of the server.
- **Video connector:** Connect a monitor to this connector. The video connectors on the front and rear of the server can be used simultaneously.

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

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

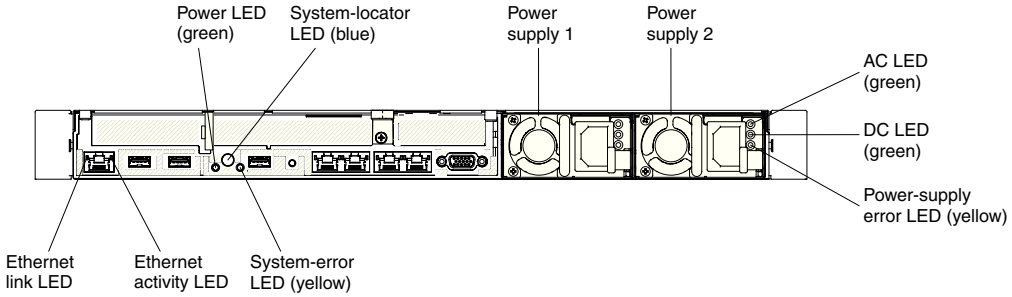


Figure 20. Rear view LEDs

- **Ethernet link LEDs:** When these LEDs are lit, they indicate that there is an active link connection on the 10BASE-T, 100BASE-TX, or 1000BASE-TX interface for the Ethernet port.
- **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.
- **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.
- **System-locator LED:** Use this LED to visually locate the server among other servers. You can use IBM Systems Director or IMM2.1 web interface to light this LED remotely.
- **System-error LED:** When this LED is lit, it indicates that a system error has occurred. An LED on the operator information panel is also lit to help isolate the error.
- **DC power LED:** Each hot-swap ac power supply has a dc 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. For any other combination of LEDs, see "AC power-supply LEDs" on page 70.
- **AC power LED:** Each hot-swap ac 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. For any other combination of LEDs, see "AC power-supply LEDs" on page 70.
- **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 components

The following illustration shows the major components in the server.

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

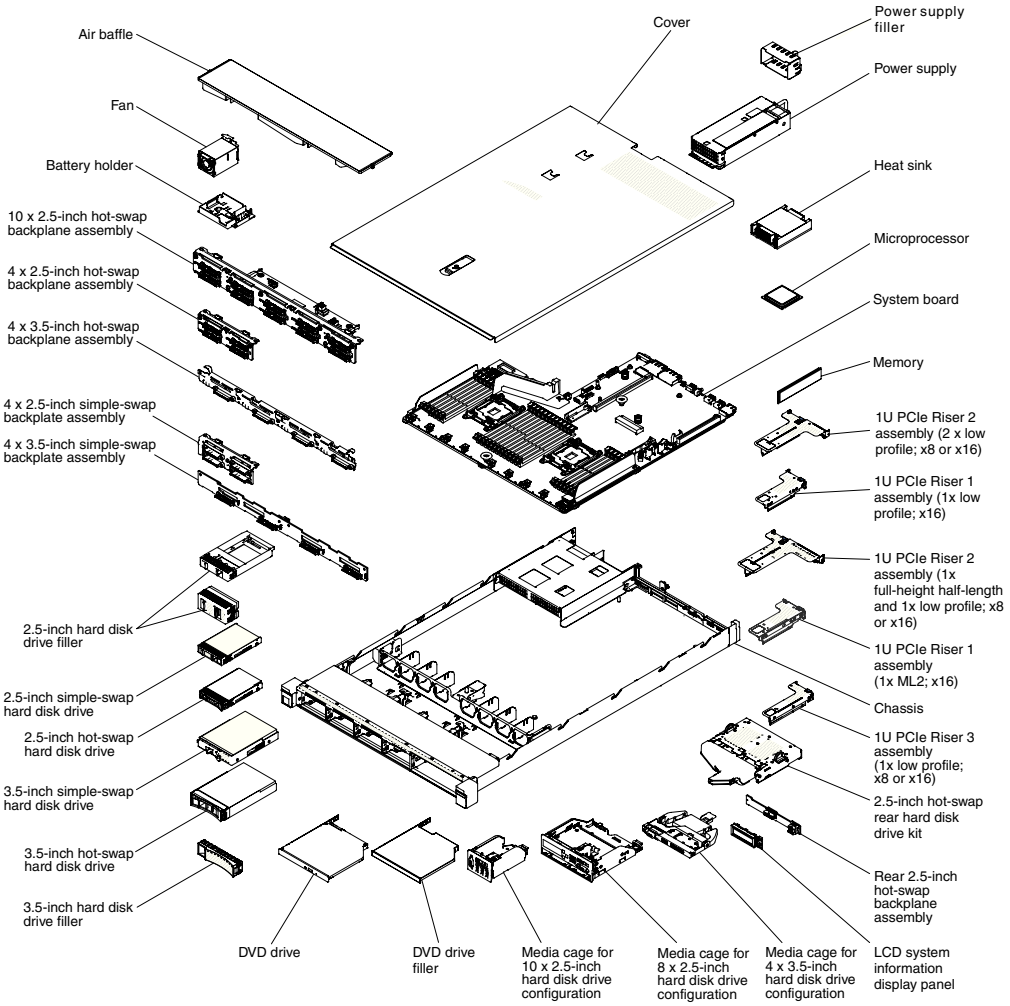


Figure 21. Server components

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.

System-board internal connectors

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

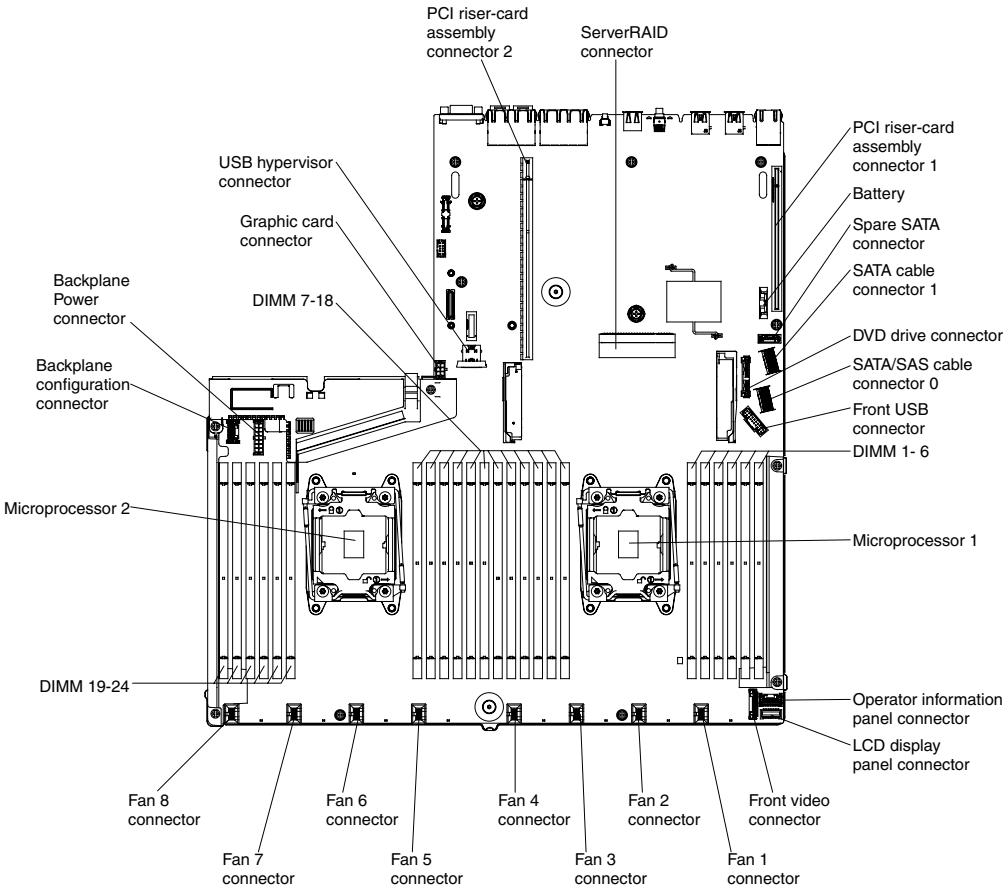


Figure 22. System-board internal connectors

System-board external connectors

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

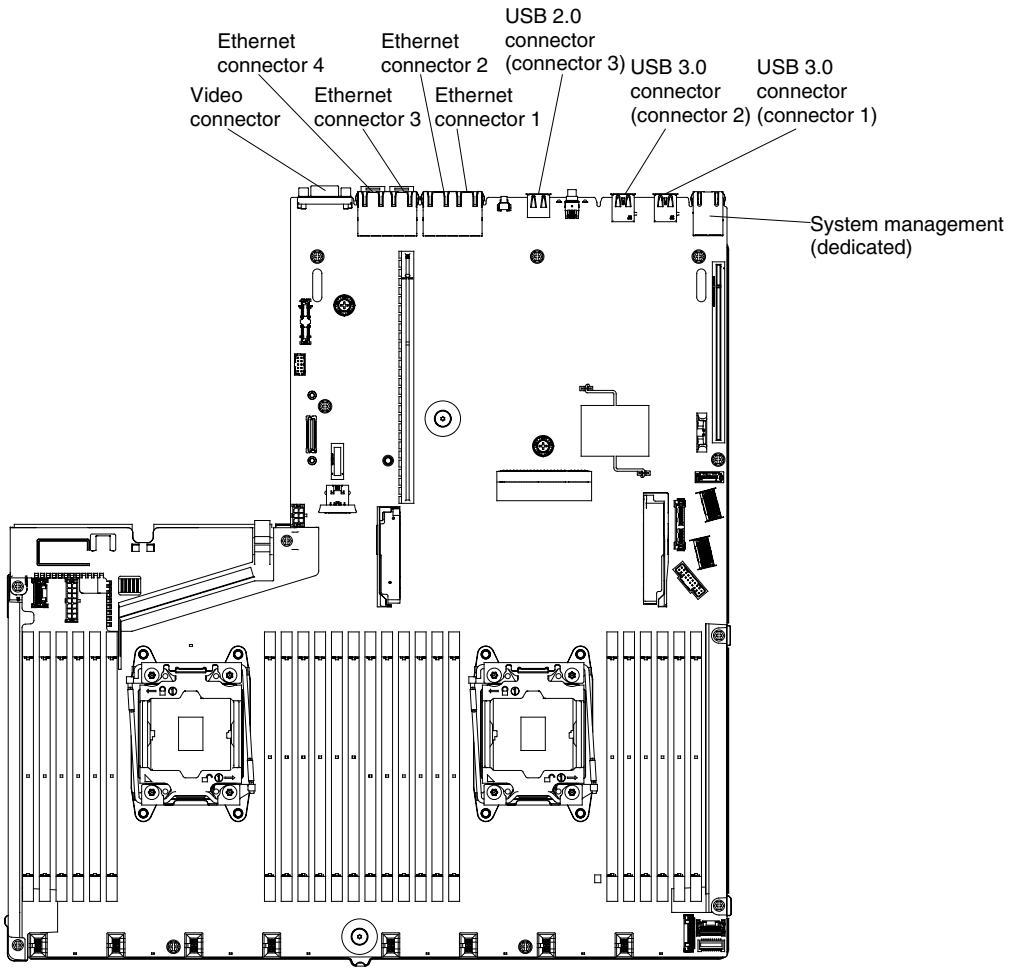


Figure 23. System-board external connectors

System-board switches, jumpers, and buttons

The following illustration shows the location of the switches, jumpers, and buttons on the server.

Important:

1. Before you change any switch settings or move any jumpers, turn off the server; then, disconnect all power cords and external cables. Review the information in "Safety" on page vii, "Installation guidelines" on page 122, "Handling static-sensitive devices" on page 124, and "Turning off the server" on page 32.
2. Any system-board switch or jumper block that is not shown in the illustrations in this document are reserved.
3. If there is a clear protective sticker on the top of the switch blocks, you must remove and discard it to access the switches.

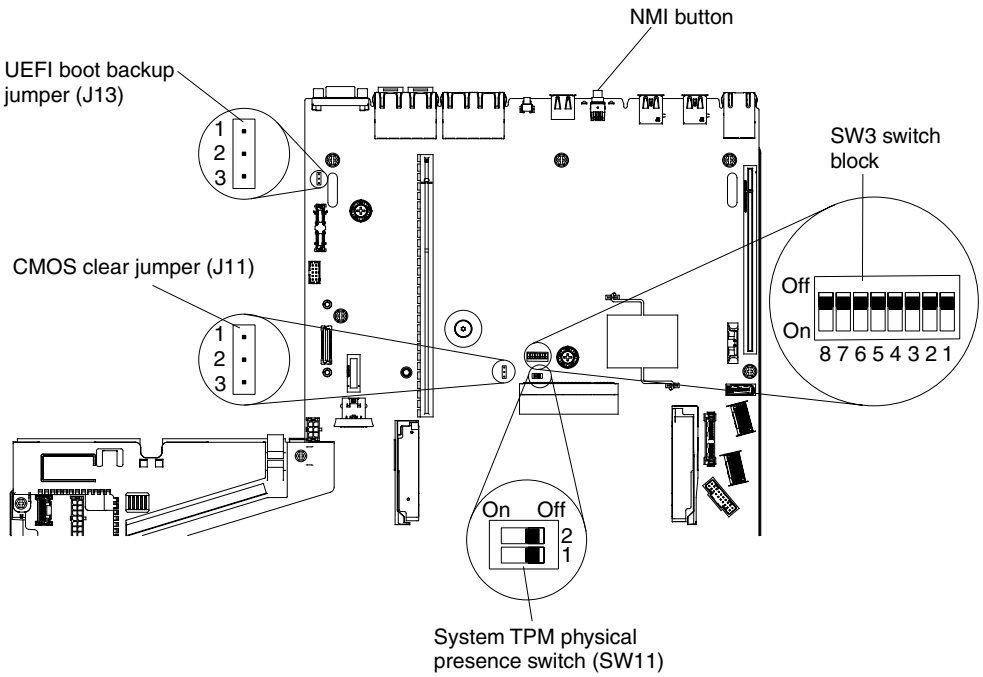


Figure 24. System-board switches, jumpers, and buttons

The following table describes the jumpers on the system board.

Table 1. System board jumpers

Jumper number	Jumper name	Jumper setting
JP11	CMOS clear jumper	• Pins 1 and 2: Normal (default). • Pins 2 and 3: Clears the real-time clock (RTC) registry.
JP13	UEFI boot backup jumper	• Pins 1 and 2: Normal (default). Loads the primary server firmware ROM page. • Pins 2 and 3: Loads the secondary (backup) server firmware ROM page.
JP7	System TPM physical presence jumper	• Pins 1 and 2: Normal (default). • Pins 2 and 3: Indicates a physical presence to the system TPM.

Notes:

1. If no jumper is present, the server responds as if the pins are set to the default.
2. Changing the position of the UEFI boot backup jumper (JP13) from pins 1 and 2 to pins 2 and 3 before the server is turned on alters which flash ROM page is loaded. Do not change the jumper pin position after the server is turned on. This can cause an unpredictable problem.

The following table describes the functions of the SW3 switch block on the system board.

Table 2. System board SW3 switch block definition

Switch number	Default position	Description
1	Off	Reserved.
2	Off	Power-on password override. Changing the position of this switch 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. You do not have to move the switch back to the default position after the power-on password in overridden. Changing the position of this switch does not affect the administrator password check if an administrator password is set. See "Passwords" on page 44 for additional information about passwords.
3	Off	Reserved.
4	Off	Reserved.

The following table describes the functions of the button on the system board.

Table 3. Button on the server

Button name	Function
Force NMI button	This button is on the rear of the server. Press this button to force a nonmaskable interrupt to the microprocessor. You might have to use a pen or the end of a straightened paper clip to press the button. You can also use it to force a blue-screen memory dump (use this button only when you are directed to do so by IBM Support).

System-board LEDs

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

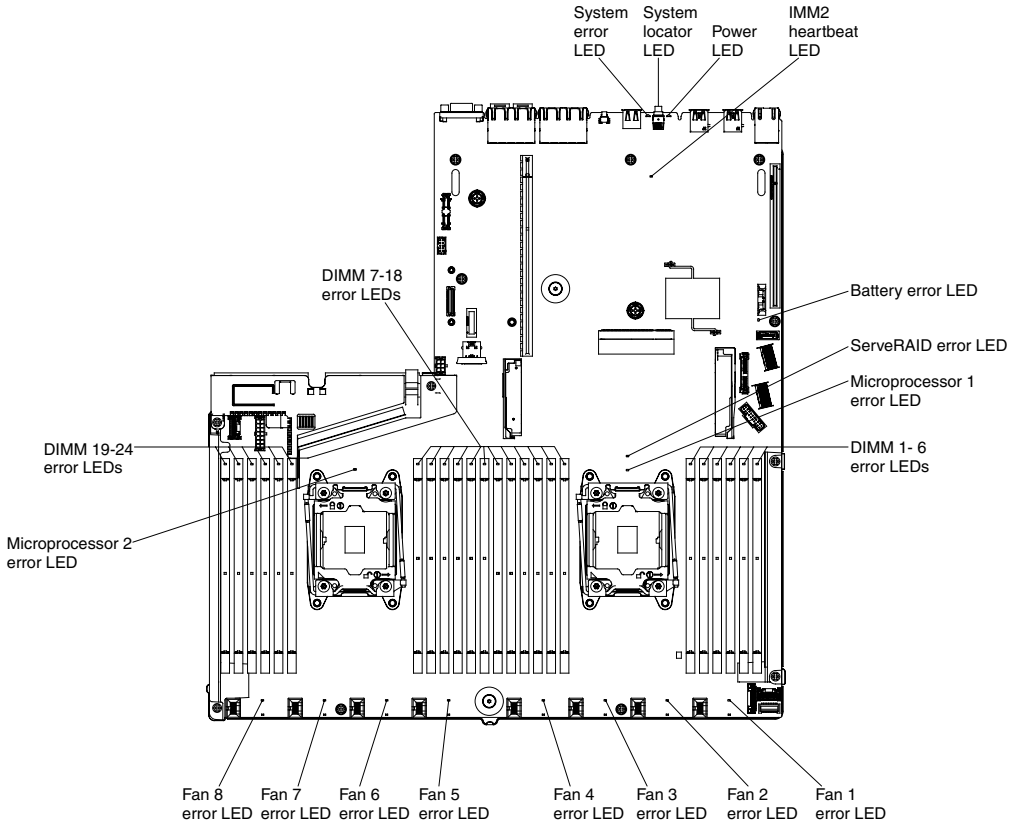


Figure 25. System-board LEDs

Server power features

When the server is connected to an ac power source but is not turned on, the operating system does not run, and all core logic except for the integrated management module is shut down.

However, the server can respond to requests from IMM, such as a remote request to turn on the server. The power-on LED flashes to indicate that the server is connected to an ac power source 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 power, one or more fans might start running to provide cooling while the server is connected to power and the power-on button LED will blink quickly. Approximately 5 to 10 seconds after the server is connected to power, the power-control button becomes active (the power-on LED will blink slowly), and one or more fans might start running to provide cooling while the server is connected to power. You can turn on the server by pressing the power-control button.

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.

Notes:

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. Ethernet 1 connector supports Wake on LAN feature.
3. When you turn on the server with the graphical adapters installed, the IBM logo displays on the screen after approximately 3 minutes. This is normal operation while the system loads.

Turning off the server

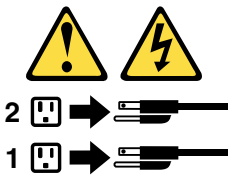
Use this information to turn off the server.

When you turn off the server and leave it connected to power, the server can respond to requests to the service processor, such as a remote request to turn on the server. While the server remains connected to 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 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.



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 riser-card 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.

Chapter 2. Configuring

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

Updating the firmware

Use this information to update the 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 http://www.ibm.com/support/entry/portal/docdisplay?lndocid=TOOL-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 IBM website. To check for the latest level of firmware, such as the UEFI firmware, device drivers, and integrated management module (IMM) 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.

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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.
- IMM2.1 firmware is stored in ROM on the system board.
- Ethernet firmware is stored in ROM on the Ethernet controller and on the system board.
- 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 40.

- **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 46.

- **IBM *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 38.

- **IBM FastSetup**

  IBM FastSetup is a no-cost software tool that helps simplify the maintenance and deployment of selected IBM BladeCenter chassis, servers, and components. The intuitive graphical interface initializes all phases of server setup, including discovery, update, and configuration. Features include templates that enable replication of settings to many servers and automation that reduces hands-on time and user errors. Wizards and other default settings enable customization capabilities. The low-touch, set-once and walk-away feature reduces the hands-on server setup time from days to minutes, particularly for larger deployments. For information about this tool, see http://www.ibm.com/support/entry/portal/docdisplay?lndocid=TOOL-FASTSET.

- **Integrated management module**

  Use the integrated management module 2.1 (IMM2.1) 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 IMM, see "Using the integrated management module" on page 47 and the *Integrated Management Module II User's Guide* at www.ibm.com/support/entry/portal/docdisplay?lndocid=MIGR-5089484&brandind=5000008.

- **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 51.

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

  The remote presence and blue-screen capture features are integrated functions of the integrated management module 2.1 (IMM2.1). 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 IMM memory and mapping it to the server as a virtual drive

  The blue-screen capture feature captures the video display contents before the IMM restarts the server when the IMM 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 48.

- **Ethernet controller configuration**

  For information about configuring the Ethernet controller, see "Configuring the Ethernet controller" on page 52.

- **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 52.

- **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 52.

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

  Use this program as an alternative to the Setup utility for modifying UEFI settings and IMM 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 "IBM Advanced Settings Utility program" on page 53.

- **Configuring RAID arrays**

  For information about configuring RAID arrays, see "Configuring RAID arrays" on page 52.

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 the RAID adapter or controller and runs the SAS/SATA RAID configuration program
- Checks the microcode (firmware) levels of a ServeRAID adapter and determines whether a later level is available from the CD
- 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

ServerGuide setup and configuration overview

When you use the *ServerGuide Setup and Installation* CD, you do not need setup diskettes. You can use the CD to configure any supported IBM 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

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.ibm.com/supportportal/.

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 the Setup utility.

About this task

To start the Setup utility, complete the following steps:

Procedure

1. Turn on the server.

   Note: Approximately 5 to 10 seconds after the server is connected to power, the power-control button becomes active.
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.
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 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.

    - **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**

  Select this choice to view or change the settings for the integrated management module.

  - **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 IMM. The default is **Enable**.

  - **Network Configuration**

    Select this choice to view the system management network interface port, the IMM MAC address, the current IMM IP address, and host name; define the static IMM IP address, subnet mask, and gateway address, specify whether to use the static IP address or have DHCP assign the imm2.1 IP address, save the network changes, and reset the IMM.

  - **Reset IMM to Defaults**

    Select this choice to view or reset IMM to the default settings.

  - **Reset IMM**

    Select this choice to reset IMM.

– **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 (IMM).

  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 44 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 45 for more information.

  – **Clear Power-on Password**

    Select this choice to clear a power-on password. See “Power-on password” on page 45 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 46 for more information.
  - **Clear Administrator Password**

    Select this choice to clear an administrator password. See "Administrator password" on page 46 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** 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 can type either 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.
- Remove the battery from the server, wait 30 seconds, and then reinstall it.
- Change the position of the power-on password switch (switch 4) on the system board switch block (SW3) to bypass the power-on password check (see Table 2 on page 30 for more information).

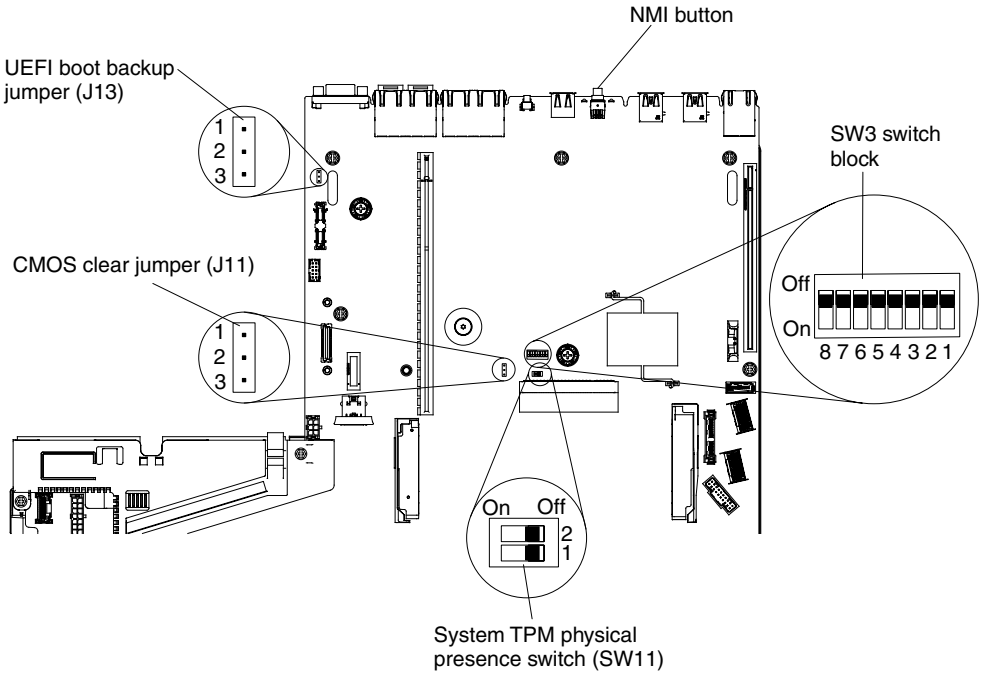

Figure 26. System-board switches, jumpers, and buttons

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 vii. Do not change settings or move jumpers on any system-board switch or jumper blocks that are not shown in this document.

While the server is turned off, move power-on password switch (switch 4) on the system board 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

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.

About this task

To use the Boot Manager program, complete the following steps:

Procedure

1. Turn off the server.
2. Restart the server.
3. When the prompt `<F12> Select Boot Device` is displayed, press F12.
4. Use the Up arrow and Down arrow keys to select an item from the menu and press Enter.

Results

The next time the server starts, it returns to the startup sequence that is set in the Setup utility.

Starting 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, place the UEFI boot backup jumper (JP13) in the backup position (pins 2 and 3). See "System-board switches, jumpers, and buttons" on page 28 for the location of the UEFI boot backup jumper (JP13).

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, move the UEFI boot backup jumper (JP13) back to the primary position (pins 1 and 2).

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**.

Using the integrated management module

The integrated management module (IMM) 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 IMM 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 IMM 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 IMM allows the administrator to generate a nonmaskable interrupt (NMI) by pressing the NMI button 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 IMM 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.
- 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 IMM 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 IMM2.1 also provides the following remote server management capabilities through the ipmitool, 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 IMM, see the *Integrated Management Module II User's Guide* at www.ibm.com/support/entry/portal/docdisplay?lndocid=MIGR-5089484&brandind=5000008.

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 2.1 (IMM2.1).

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 IMM memory and mapping it to the server as a virtual drive

The blue-screen capture feature captures the video display contents before the IMM restarts the server when the IMM 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 IMM host name

Use this information to obtain the IMM host name.

About this task

If you are logging on to the IMM for the first time after installation, the IMM defaults to DHCP. If a DHCP server is not available, the IMM uses a static IP address of 192.168.70.125. The default IPv4 host name is "IMM-" (plus the last 12 characters on the IMM MAC address). The default host name also comes on the IMM network access tag that comes attached to the power supply on the rear of the server. The IMM network access tag provides the default host name of the IMM and does not require you to start the server.

The IPv6 link-local address (LLA) is derived from the IMM default host name. The IMM LLA is on the IMM network access tag is on the power supply on the rear of the server. To derive the link-local address, complete the following steps:

Procedure

1. Take the last 12 characters on the IMM MAC address (for example, 5CF3FC5EAAD0).
2. Separate the number into pairs of hexadecimal characters (for example, 5C:F3:FC:5E:AA:D0).
3. Separate the first six and last six hexadecimal characters.
4. Add "FF" and "FE" in the middle of the 12 characters (for example, 5C F3 FC FF FE 5E AA D0).
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).
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.
7. Convert the binary back to hexadecimal (for example, 5E F3FCFFFE5EAAD0).

Obtaining the IP address for the IMM

To access the web interface to use the remote presence feature, you need the IP address or host name of the IMM. You can obtain the IMM IP address through the Setup utility and you can obtain the IMM host name from the IMM network access tag.

About this task

The server comes with a default IP address for the IMM of 192.168.70.125.

To obtain the IP address, complete the following steps:

Procedure

1. Turn off the server.

   Note: Approximately 5 to 10 seconds after the server is connected to power, the power-control button becomes active.
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.
3. From the Setup utility main menu, select **System Settings**.

4. On the next screen, select **Integrated Management Module**.
5. On the next screen, select **Network Configuration**.
6. Find the IP address and write it down.
7. Exit from the Setup utility.

Logging on to the web interface

Use this information to log on to the web interface.

About this task

To log on to the IMM web interface, complete the following steps:

Procedure

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 IMM to which you want to connect.

   Note: If you are logging on to the IMM for the first time after installation, the IMM defaults to DHCP. If a DHCP host is not available, the IMM assigns a static IP address of 192.168.70.125. The IMM network access tag provides the default host name of the IMM and does not require you to start the server.
2. On the Login page, type the user name and password. If you are using the IMM 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 IMM 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.
3. Click **Log in** to start the session. The System Status and Health page provides a quick view of the system status.

Results

Note: If you boot to the operating system while in the IMM 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 IMM 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 IBM USB flash device with embedded hypervisor.

About this task

The USB flash device can be installed in USB connectors on the system board (see "System-board internal connectors" on page 27 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:

Procedure

1. Turn on the server.

   Note: Approximately 5 to 10 seconds after the server is connected to power, the power-control button becomes active.
2. When the prompt `<F1> Setup` is displayed, press F1.
3. From the Setup utility main menu, select **Boot Manager**.
4. Select **Add Boot Option**; then, select **Generic Boot Option** > **Embedded Hypervisor**. Press Enter, and then select Esc.
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.
6. Select **Save Settings** and then select **Exit Setup**.

Results

If the embedded hypervisor flash device image becomes corrupt, you can download the image from http://www-03.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

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.ibm.com/supportportal/.

Enabling 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.

For more information and instructions for activating the Features on Demand Ethernet software key, see the *IBM 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

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 *IBM 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

Through the Setup utility, you can access utilities to configure RAID.

About this task

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:

Procedure

1. Turn on the server.

   Note: Approximately 10 seconds after the server is connected to power, the power-control button becomes active.

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.
3. Select **System Settings** > **Storage**.
4. Press Enter to refresh the list of device drivers.
5. Select the device driver for your RAID controller and press Enter.
6. Follow the instructions in the documentation for your RAID controller.

IBM Advanced Settings Utility program

The IBM 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 IMM2.1 settings. The remote presence features provide enhanced systems-management capabilities.

In addition, the ASU program provides IMM 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 http://www.ibm.com/support/entry/portal/docdisplay?lndocid=TOOL-ASU.

Updating IBM Systems Director

If you plan to use IBM Systems Director to manage the server, you must check for the latest applicable IBM Systems Director updates and interim fixes.

About this task

Note: Changes are made periodically to the IBM website. The actual procedure might vary slightly from what is described in this document.

Installing a newer version

About this task

To locate and install a newer version of IBM Systems Director, complete the following steps:

Procedure

1. Check for the latest version of IBM Systems Director:
   a. Go to http://www.ibm.com/systems/management/director/downloads.html.
   b. If a newer version of IBM 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.
2. Install the IBM Systems Director program.

Installing updates with your management server is connected to the Internet

About this task

If your management server is connected to the Internet, to locate and install updates and interim fixes, complete the following steps:

Procedure

1. Make sure that you have run the Discovery and Inventory collection tasks.
2. On the Welcome page of the IBM Systems Director web interface, click **View updates**.
3. Click **Check for updates**. The available updates are displayed in a table.
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

About this task

If your management server is not connected to the Internet, to locate and install updates and interim fixes, complete the following steps:

Procedure

1. Make sure that you have run the Discovery and Inventory collection tasks.
2. On a system that is connected to the Internet, go to http://www.ibm.com/support/fixcentral.
3. From the **Product family** list, select **IBM Systems Director**.
4. From the **Product** list, select **IBM Systems Director**.
5. From the **Installed version** list, select the latest version, and click**Continue**.
6. Download the available updates.
7. Copy the downloaded files to the management server.
8. On the management server, on the Welcome page of the IBM Systems Director web interface, click the **Manage** tab, and click **Update Manager**.
9. Click **Import updates** and specify the location of the downloaded files that you copied to the management server.
10. Return to the Welcome page of the Web interface, and click **View updates**.

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.

About this task

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 IBM website. To download the ASU and update the UUID, complete the following steps.

Note: Changes are made periodically to the IBM website. The actual procedure might vary slightly from what is described in this document.

Procedure

1. Download the Advanced Settings Utility (ASU) at http://www.ibm.com/support/entry/portal/docdisplay?lndocid=TOOL-ASU.
2. ASU sets the UUID in the Integrated Management Module (IMM). Select one of the following methods to access the Integrated Management Module (IMM) 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)
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
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 IMM internal LAN/USB IP address. The default value is 169.254.95.118.

imm_user_id
The IMM `account` (1 of 12 accounts). The default value is USERID.

imm_password
The IMM 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 IMM 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 User's Guide* for more details. You can download the *Advanced Settings Utility User's Guide* at http://www.ibm.com/support/entry/portal/docdisplay?lndocid=TOOL-ASU.
- Remote LAN access, type the command:

  Note: When using the remote LAN access method to access IMM 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 IMM LAN IP address. There is no default value. This parameter is required.

  imm_user_id
  The IMM `account` (1 of 12 accounts). The default value is USERID.

  imm_password
  The IMM 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 http://www.ibm.com/support/entry/portal/docdisplay?lndocid=TOOL-CENTER. From the **IBM ToolsCenter** page, scroll down for the available tools.

5. Restart the server.

Updating 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.

About this task

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 IBM website. To download the ASU and update the DMI, complete the following steps.

Note: Changes are made periodically to the IBM website. The actual procedure might vary slightly from what is described in this document.

Procedure

1. Download the Advanced Settings Utility (ASU) at http://www.ibm.com/support/entry/portal/docdisplay?lndocid=TOOL-ASU.
2. ASU sets the DMI in the Integrated Management Module (IMM). Select one of the following methods to access the Integrated Management Module (IMM) 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)
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

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 IMM internal LAN/USB IP address. The default value is 169.254.95.118.

  imm_user_id
  The IMM `account` (1 of 12 accounts). The default value is USERID.

  imm_password
  The IMM 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 IMM 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. You can download the *Advanced Settings Utility User's Guide* at http://www.ibm.com/support/entry/portal/docdisplay?lndocid=TOOL-ASU.

- 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 IMM 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 IMM LAN IP address. There is no default value. This parameter is required.

  imm_user_id
  The IMM `account` (1 of 12 accounts). The default value is USERID.

  imm_password
  The IMM 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 http://www.ibm.com/support/entry/portal/docdisplay?lndocid=TOOL-CENTER. From the **IBM ToolsCenter** page, scroll down for the available tools.

5. Restart the server.

Chapter 3. Troubleshooting

This section 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 821 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.

Procedure

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
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 68 for information about using light path diagnostics LEDs.
   - **Event logs:** See "Event logs" on page 73 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.
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 http://www.ibm.com/support/entry/portal/docdisplay?lndocid=SERV-DSA.

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 35. For more information about the Bootable Media Creator, see http://www.ibm.com/support/entry/portal/docdisplay?lndocid=TOOL-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 4b).

   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.

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.ibm.com/systems/info/x86servers/serverproven/compat/us 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 64. For information about configuring the server, see Chapter 2, "Configuring," on page 35.

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.ibm.com/supportportal.

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.ibm.com/supportportal.

8. **Use the troubleshooting tables.** See "Troubleshooting by symptom" on page 80 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

IBM continually updates the support website with the latest tips and techniques that you can use to solve problem that you might have with the IBM System x3550 M5 server.

To find service bulletins that are available for the IBM System x3550 M5 server, go to http://www.ibm.com/supportportal/ and search for `Type 5463`, 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

Review the following information before you perform the checkout procedure for diagnosing hardware problems.

- Read the safety information that begins on "Safety" on page vii.
- IBM 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.

  Exception: If multiple error codes 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 89 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 diagnostic codes," on page 665. If the server is halted and no error message is displayed, see "Troubleshooting by symptom" on page 80 and "Solving undetermined problems" on page 104.

- For information about power-supply problems, see "Solving power problems" on page 101, "Power problems" on page 94, and "Power-supply LEDs" on page 69.
- For intermittent problems, check the event log; see "Event logs" on page 73 and Appendix C, "DSA diagnostic test results," on page 685.

Performing the checkout procedure

Use this information to perform the checkout procedure.

About this task

To perform the checkout procedure, complete the following steps:

Procedure

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.
2. Complete the following steps:
   a. Check the power supply LEDs (see "Power-supply LEDs" on page 69).
   b. Turn off the server and all external devices.
   c. Check all internal and external devices for compatibility at http://www.ibm.com/systems/info/x86servers/serverproven/compat/us.
   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 80.
   h. Check the system-error LED on the operator information panel or LCD operating panel assembly (see "Operator information panel" on page 20 or"LCD operating panel assembly" on page 21).
   i. Check for the following results:
      - Successful completion of POST (see "POST" on page 76 for more information)
      - Successful completion of startup, which is indicated by a readable display of the operating-system desktop
3. Is there a readable image on the monitor screen?
   - **No:** Find the failure symptom in "Troubleshooting by symptom" on page 80; if necessary, see "Solving undetermined problems" on page 104.
   - **Yes:** Run DSA (see "Running the DSA Preboot diagnostic programs" on page 78).
     – If DSA reports an error, follow the instructions in Appendix C, "DSA diagnostic test results," on page 685.
     – If DSA does not report an error but you still suspect a problem, see "Solving undetermined problems" on page 104.

Diagnostic tools

The section introduces available tools 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 68 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 IMM2.1, POST, DSA, and the server baseboard management controller. See "Event logs" on page 73 for more information.

- **Integrated management module II**

  The integrated management module 2.1 (IMM2.1) combines service processor functions, video controller, and remote presence and blue-screen capture features in a single chip. The IMM provides advanced service-processor control, monitoring, and alerting function. If an environmental condition exceeds a threshold or if a system component fails, the IMM lights LEDs to help you diagnose the problem, records the error in the IMM event log, and alerts you to the problem. Optionally, the IMM also provides a virtual presence capability for remote server management capabilities. The IMM 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 2.1 (IMM2.1.1), see "Using the integrated management module" on page 47, Appendix A, "Integrated management module 2.1 (IMM2.1) error messages," on page 269, and the *Integrated Management Module II User's Guide* at www.ibm.com/support/entry/portal/docdisplay?lndocid=MIGR-5089484&brandind=5000008.

- **IBM Dynamic System Analysis**

  Two editions of IBM 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
    - IMM2.1 configuration information
    - IMM2.1 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) 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 (IMM) event log (as the ASM event log), and the operating-system event logs. You can send the DSA log as a file to IBM Support (when requested by IBM 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://www.ibm.com/systems/management.

For additional information, see "IBM Dynamic System Analysis" on page 77 and Appendix C, "DSA diagnostic test results," on page 685.

– 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
- IMM2.1 configuration information
- IMM2.1 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) 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. IMM I2C bus
3. Memory modules
4. Microprocessors
5. Optical devices (CD or DVD)
6. SAS or SATA drives
7. LSI controller
8. Broadcom network adapter
9. FusionIO storage

10. Intel GPU
11. Nvidia GPU

    See "Running the DSA Preboot diagnostic programs" on page 78 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 80 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 on the operator information panel on the front of the of the server, 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 vii and "Handling static-sensitive devices" on page 124.

If an error occurs, proceed as follows:

1. Look at the operator information panel (see "Operator information panel" on page 20) on the front of the server.
   - If the check log LED is lit, it indicates that information about an un-isolated fault condition in the server is available in the IMM event log or in the system-event log.
   - If the system-error LED is lit, it indicates that an error has occurred.
2. Remove the server cover and look inside the server for lit LEDs. Certain components inside the server have LEDs that are lit to indicate the location of a problem.

   The system service label inside the server cover provides an overview of internal components that correspond to errors indicated by the operator information panel or LCD operating panel assembly (see "Operator information panel" on page 20 or "LCD operating panel assembly" on page 21. This information can often provide enough information to diagnose the error.

   Note: You do not have to remove the server cover to view the LEDs on hard disk drives and power supplies.

The following illustration shows the LEDs on the system board.

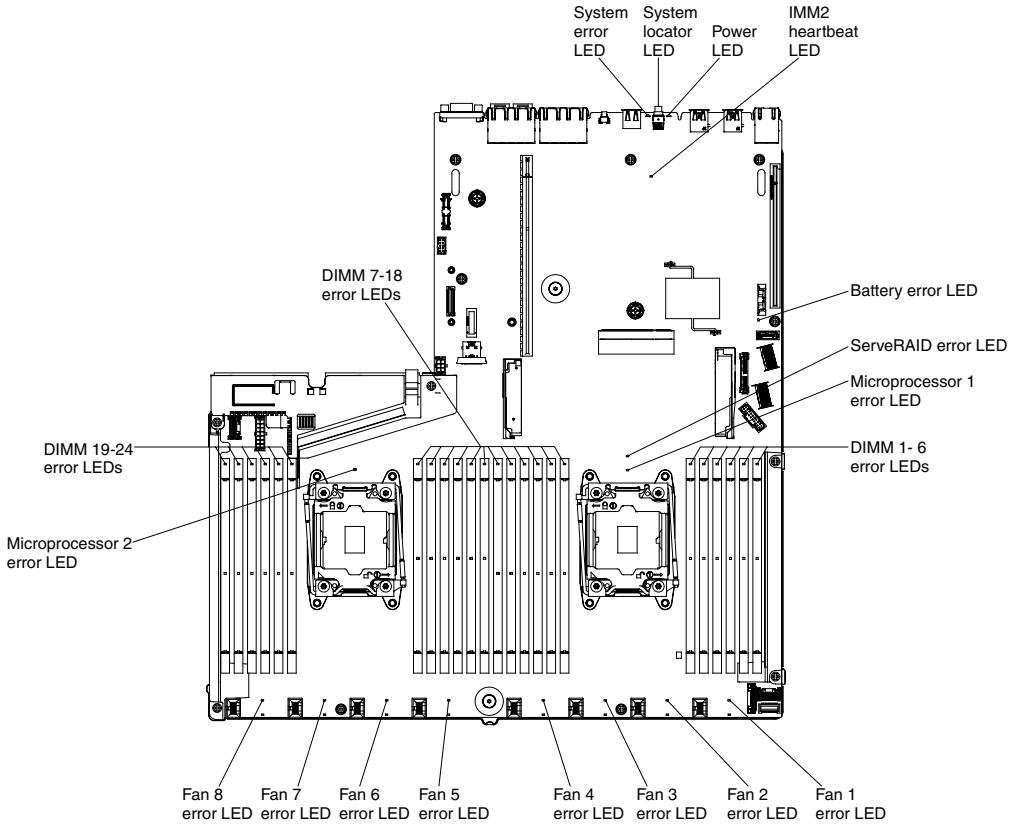

Figure 27. System board error LEDs

For the eight 2.5-inch hot-swap server configuration, it will also come with a LCD operating panel assembly, which displays a current list of errors reported by the system and other information. See the "LCD operating panel assembly" on page 21 for more information about the LCD operating panel assembly.

Note: The LCD operating panel assembly is only installed in the eight 2.5-inch hot-swap server configuration.

Power-supply LEDs

Use this information to view power-supply LEDs.

The following minimum configuration is required for the server to start:

- One microprocessor in microprocessor socket 1
- One 4 GB DIMM on the system board
- One power supply
- Power cord
- Six cooling fans (fan 1, 2, 3, 4, 5 and 7)

AC power-supply LEDs:

Use this information to view AC power-supply LEDs.

The following minimum configuration is required for the DC LED on the power supply to be lit:
- Power supply
- Power cord

Note: You must turn on the server for the DC LED on the power supply to be lit.

The following illustration shows the locations of the power-supply LEDs on the ac power supply.

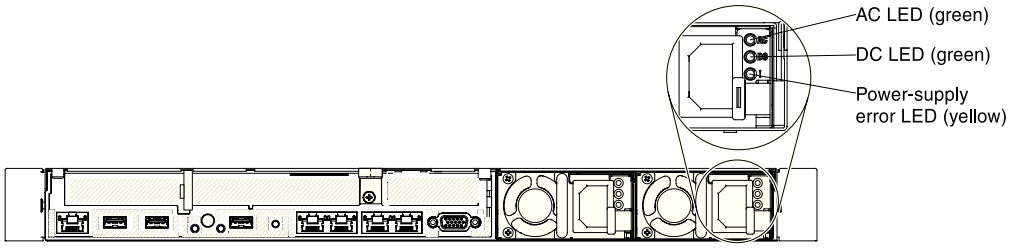

Figure 28. AC power-supply LEDs

The following table describes the problems that are indicated by various combinations of the power-supply LEDs on an ac power supply and suggested actions to correct the detected problems.

AC power-supply LEDs			Description	Action	Notes
AC	**DC**	**Error (!)**			
On	On / Blinking	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. 2. Make sure that the power cord is connected to a functioning power source. 3. Restart the server. If the error remains, check the power-supply LEDs. 4. If the problem remains, replace the power-supply.	This is a normal condition when no ac power is present.
Off	Off	On	The power supply has failed.	Replace the power supply.	
Off	On / Blinking	Off	The power supply has failed.	Replace the power supply.	
Off	On / Blinking	On	The power supply has failed.	Replace the power supply.	

AC power-supply LEDs			Description	Action	Notes
AC	DC	Error (!)			
On	Off	Off	Power-supply not fully seated, faulty system board, or the power supply has failed.	1. Reseat the power supply. 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.	Typically indicates a power-supply is not fully seated.
On	Off	On	The power supply has failed.	Replace the power supply.	
On	On / Blinking	On	The power supply has failed.	Replace the power supply.	

Note: When the DC LED is blinking at a 1Hz rate, the PSU is at STANDBY mode, i.e. no DC power output from this PSU.

System pulse LEDs

Use this information to diagnose possible errors that are indicated by the system pulse LEDs.

The following LEDs are on the system board and help you to monitor the system power-on and power-off sequencing and boot progress (see "System-board LEDs" on page 30 for the location of these LEDs).

Table 4. System pulse LEDs

LED	Description	Action
FPGA heartbeat	Power-on and power-off sequencing.	1. If the LED blinks at 1Hz, it is functioning properly and no action is necessary. 2. If the LED is not blinking, (trained technician only) replace the system board.

Table 4. System pulse LEDs (continued)

LED	Description	Action
IMM heartbeat	IMM2.1.1 heartbeat boot process.	The following steps describe the different stages of the IMM2.1 heartbeat sequencing process. 1. When this LED is blinking fast (approximately 4Hz), this indicates, that the IMM2.1 code is in the loading process. 2. When this LED goes off momentarily, this indicates that the IMM2.1 code has loaded completely. 3. When this LED goes off momentarily and then starts blinking slowing (approximately 1Hz), this indicates that IMM2.1 is fully operational. You can now press the power-control button to power-on the server. 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.

PCI riser-card LEDs

Use this information to view PCI riser-card LEDs.

The following illustration shows the location of the PCI riser-card LEDs.

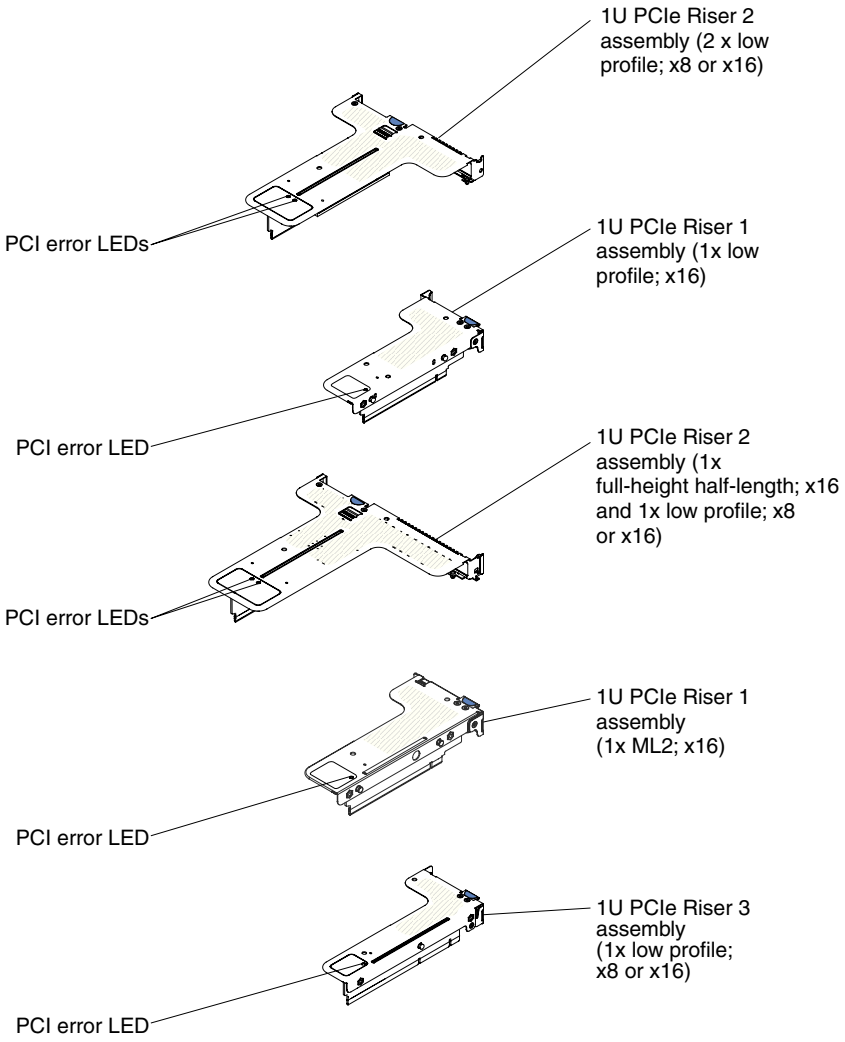

Figure 29. PCI riser-card LEDs

Event logs

Error codes and messages displayed in POST event log, system-event log, integrated management module (IMM2.1) 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 40). For more information about POST error codes, see Appendix B, "UEFI/POST diagnostic codes," on page 665.
- **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 (IMM). 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 2.1 (IMM2.1) error messages," on page 269.

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 IMM 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 2.1 (IMM2.1.1) event log:** This log contains a filtered subset of all IMM, POST, and system management interrupt (SMI) events. You can view the IMM event log through the IMM web interface. For more information, see "Logging on to the web interface" on page 50. You can also view the IMM event log through the Dynamic System Analysis (DSA) program (as the ASM event log). For more information about IMM error messages, see Appendix A, "Integrated management module 2.1 (IMM2.1) error messages," on page 269.
- **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 IMM 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 75). For more information about DSA and DSA messages, see "IBM Dynamic System Analysis" on page 77 and Appendix C, "DSA diagnostic test results," on page 685.

Viewing event logs through the Setup utility

Use this information to view event logs through the Setup utility.

About this task

To view the POST event log or system-event log, complete the following steps:

Procedure

1. Turn on the server.
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.
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

If the server is not hung and the IMM 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 IMM 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 http://www.ibm.com/support/entry/portal/docdisplay?lndocid=SERV-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 IMM event log through the **Event Log** link in the integrated management module II (IMM2.1) web interface. For more information, see "Logging on to the web interface" on page 50.

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 5. 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: • Run DSA Portable to view the diagnostic event log (requires IPMI driver) or create an output file that you can send to IBM service and support (using ftp or local copy). • Use IPMItool to view the system-event log (requires IPMI driver). • Use the web browser interface to the IMM 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 IBM service and support (using ftp or local copy). • Use IPMItool to view the system-event log (requires IPMI driver). • Use the web browser interface to the IMM to view the system-event log locally (requires RNDIS USB LAN driver).
The server is not hung and the integrated management module II (IMM2.1) is connected to a network.	In a web browser, type the IP address for the IMM2.1 and go to the **Event Log** page. For more information, see "Obtaining the IMM host name" on page 49 and "Logging on to the web interface" on page 50.

Table 5. Methods for viewing event logs (continued)

Condition	Action
The server is hung, and no communication can be made with the IMM.	• If DSA Preboot is installed, restart the server and press F2 to start DSA Preboot and view the event logs (see "Running the DSA Preboot diagnostic programs" on page 78 for more information). • 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 74.

Clearing the event logs

Use this information to clear the event logs.

About this task

To clear the event logs, complete the following steps:

Note: The POST error log is automatically cleared each time the server is restarted.

Procedure

1. Turn on the server.
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.
3. To clear the IMM 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 diagnostic codes," on page 665 for more information.

If POST detects a problem, an error message is sent to the POST event log, see "Event logs" on page 73 for more information.

IBM Dynamic System Analysis

IBM 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) status and configuration
- System configuration
- Vital product data and firmware information
- IMM configuration information
- IMM enviromentals information
- Option card driver 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 685.

If you cannot find a problem by using DSA, see "Solving undetermined problems" on page 104 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 http://www.ibm.com/support/entry/portal/docdisplay?lndocid=SERV-DSA.

DSA editions

The editions of Dynamic System Analysis are DSA Portable and DSA Preboot.

- **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 able to start 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 IBM ToolsCenter Bootable Media Creator (BoMC). For more details, see the BoMC *User Guide* at http://www.ibm.com/support/entry/portal/

docdisplay?lndocid=TOOL-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
- LSI controller
- Broadcom network adapter
- FusionIO adapter
- Intel GPU
- Nvidia GPU

If you are unable to restart the server or if you need comprehensive diagnostics, use DSA Preboot.

For more information and to download the utilities, go to http://www.ibm.com/support/entry/portal/docdisplay?lndocid=SERV-DSA.

Running the DSA Preboot diagnostic programs

Use this information to run the DSA Preboot diagnostic programs.

About this task

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:

Procedure

1. If the server is running, turn off the server and all attached devices.
2. Turn on all attached devices; then, turn on the server.
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.
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.

5. Type **gui** to display the graphical user interface, or type **cmd** to display the DSA interactive menu.
6. Follow the instructions on the screen to select the diagnostic test to run.

Results

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.

About this task

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.

Procedure

- 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.

Results

You can also send the DSA error log to IBM support to aid in diagnosing the server problems.

Automated service request (call home)

IBM provides tools that can automatically collect and send data or call IBM Support when an error is detected. These tools can help IBM Support speed up the process of diagnosing problems.

The following sections provide information about the call home tools.

IBM Electronic Service Agent

IBM Electronic Service Agent monitors, tracks, and captures system hardware errors and hardware and software inventory information, and reports serviceable problems directly to IBM Support.

You can also choose to collect data manually. It uses minimal system resources, and can be downloaded from the IBM website. For more information and to download IBM Electronic Service Agent, go to http://www-01.ibm.com/support/esa/.

Error messages

This section provides the list of error codes and messages for UEFI/POST, IMM, and DSA that are generated when a problem is detected.

See Appendix A, "Integrated management module 2.1 (IMM2.1) error messages," on page 269, Appendix B, "UEFI/POST diagnostic codes," on page 665, and Appendix C, "DSA diagnostic test results," on page 685 for more information.

Troubleshooting by symptom

Use the troubleshooting tables to find solutions to problems that have identifiable symptoms.

About this task

If you cannot find a solution to the problem in these tables, see Appendix C, "DSA diagnostic test results," on page 685 for information about testing the server and "Running the DSA Preboot diagnostic programs" on page 78 for additional information about running DSA Preboot program. For additional information to help you solve problems, see "Start here" on page 61.

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:

Procedure

1. Check the system-error LED on the operator information panel (see "Operator information panel" on page 20).
2. Remove the software or device that you just added.
3. Run IBM 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 685).
4. Reinstall the new software or new device.

Results

CD/DVD drive problems

Use this information to solve CD/DVD drive problems.

Table 6. CD/DVD drive's symptoms and actions

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
The DVD drive is not recognized.	1. Make sure that: • The SATA connector to which the DVD drive is attached (primary or secondary) is enabled in the Setup utility. • All cables and jumpers are installed correctly. • The correct device driver is installed for the DVD drive. 2. Run the DVD drive diagnostic programs. 3. Reseat the following components: a. DVD drive b. DVD drive cable 4. Replace the components listed in step 3 one at a time, in the order shown, restarting the server each time. 5. (Trained technician only) Replace the system board.
A CD or DVD is not working correctly.	1. Clean the CD or DVD. 2. Replace the CD or DVD with new CD or DVD media. 3. Run the DVD drive diagnostic programs. 4. Reseat the DVD drive. 5. Replace the DVD drive.
The DVD drive tray is not working.	1. Make sure that the server is turned on. 2. Insert the end of a straightened paper clip into the manual tray-release opening. 3. Reseat the DVD drive. 4. Replace the DVD drive.

General problems

Use this information to solve general problems.

Table 7. General symptoms and actions

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
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 109 for more information. 2. See "Recovering the server firmware (UEFI update failure)" on page 106 for more information.

Hard disk drive problems

Use this information to solve hard disk drive problems.

Table 8. Hard disk drive symptoms and actions

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
A hard disk drive has failed, and the associated yellow hard disk drive status LED is lit.	Replace the failed hard disk drive (see "Removing hot-swap hard disk drives" on page 143 and "Replacing hot-swap hard disk drives" on page 144).

Table 8. Hard disk drive symptoms and actions (continued)

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
A newly installed hard disk drive is not recognized.	1. Make sure that the installed hard disk drive or ServeRAID adapter is supported. For a list of supported optional devices, see http://www.ibm.com/systems/info/x86servers/serverproven/compat/us. 2. Observe the associated yellow hard disk drive status LED. If the LED is lit, it indicates a drive fault. 3. If the LED is lit, remove the drive from the bay, wait 45 seconds, and reinsert the drive, making sure that the drive assembly connects to the hard disk drive backplane. 4. Observe the associated green hard disk drive activity LED and the yellow status LED: • If the green activity LED is flashing and the yellow status LED is not lit, the drive is recognized by the controller and is working correctly. Run the DSA diagnostics program to determine whether the drive is detected. • If the green activity LED is flashing and the yellow status LED is flashing slowly, the drive is recognized by the controller and is rebuilding. • If neither LED is lit or flashing, check the hard disk drive backplane (go to step 5). • If the green activity LED is flashing and the yellow status LED is lit, replace the drive. If the activity of the LEDs remains the same, go to step 5. If the activity of the LEDs changes, return to step 2. 5. Make sure that the hard disk drive backplane is correctly seated. When it is correctly seated, the drive assemblies correctly connect to the backplane without bowing or causing movement of the backplane. 6. Reseat the backplane power cable and repeat steps 2 through 4. 7. Reseat the backplane signal cable and repeat steps 2 through 4. 8. Suspect the backplane signal cable or the backplane: • If the server has eight hot-swap bays: a. Replace the affected backplane signal cable. b. Replace the affected backplane. 9. See "Problem determination tips" on page 105.
Multiple hard disk drives fail.	Make sure that the hard disk drive, SAS/SATA adapter, and server device drivers and firmware are at the latest level. **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.
Multiple hard disk drives are offline.	1. Review the storage subsystem logs for indications of problems within the storage subsystem, such as backplane or cable problems. 2. See "Problem determination tips" on page 105.
A replacement hard disk drive does not rebuild.	1. Make sure that the hard disk drive is recognized by the adapter (the green hard disk drive activity LED is flashing). 2. Review the SAS/SATA adapter documentation to determine the correct configuration parameters and settings.

Table 8. Hard disk drive symptoms and actions (continued)

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
A green hard disk drive activity LED does not accurately represent the actual state of the associated drive.	If the green hard disk drive activity LED does not flash when the drive is in use, run the DSA Preboot diagnostic programs to collect error logs (see "Running the DSA Preboot diagnostic programs" on page 78). • If there is a hard disk drive error log, replace the affected hard disk drive. • If there is no disk drive error log error log, replace the affected backplane.
An yellow hard disk drive status LED does not accurately represent the actual state of the associated drive.	1. If the yellow hard disk drive LED and the RAID adapter software do not indicate the same status for the drive, complete the following steps: a. Turn off the server. b. Reseat the SAS/SATA adapter. c. Reseat the backplane signal cable and backplane power cable. d. Reseat the hard disk drive. e. Turn on the server and observe the activity of the hard disk drive LEDs. 2. See "Problem determination tips" on page 105.

Hypervisor problems

Use this information to solve hypervisor problems.

Table 9. Hypervisor's symptoms and actions

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
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. 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 216 and "Replacing a USB embedded hypervisor flash device" on page 217). 3. See the documentation that comes with the optional embedded hypervisor flash device for setup and configuration information. 4. Make sure that other software works on the server.

Intermittent problems

Use this information to solve intermittent problems.

Table 10. Intermittent problems and actions

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
A problem occurs only occasionally and is difficult to diagnose.	1. Make sure that: • All cables and cords are connected securely to the rear of the server and attached devices. • 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. 2. Check the system-error log or IMM event logs (see "Event logs" on page 73).
The server resets (restarts) occasionally.	1. If the reset occurs during POST and the POST watchdog timer is enabled (click **System Settings** > **Recovery** > **System Recovery** > **POST Watchdog Timer** in the Setup utility to see the POST watchdog setting), make sure that sufficient time is allowed in the watchdog timeout value (**POST Watchdog Timer**). If the server continues to reset during POST, see Appendix B, "UEFI/POST diagnostic codes," on page 665 and Appendix C, "DSA diagnostic test results," on page 685. 2. If neither condition applies, check the system-error log or IMM system-event log (see "Event logs" on page 73).

Keyboard, mouse, or USB-device problems

Use this information to solve keyboard, mouse, or USB-device problems.

Table 11. Keyboard, mouse, or USB-device's symptoms and actions

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
All or some keys on the keyboard do not work.	1. Make sure that: • The keyboard cable is securely connected. • The server and the monitor are turned on. 2. If you are using a USB keyboard, run the Setup utility and enable the operation. 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. 4. Replace the keyboard.

Table 11. Keyboard, mouse, or USB-device's symptoms and actions (continued)

- **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**

Symptom	Action
The mouse or USB-device does not work.	1. Make sure that: • The mouse or USB device cable is securely connected to the server. • The mouse or USB device drivers are installed correctly. • The server and the monitor are turned on. • The mouse option is enabled in the Setup utility. 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. 3. Replace the mouse or USB-device.

Memory problems

Use this information to solve memory problems.

Table 12. Memory problems and actions

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
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. 1. Make sure that: • No error LEDs are lit on the operator information panel. • No DIMM error LEDs are lit on the system board. • Memory mirrored channel does not account for the discrepancy. • The memory modules are seated correctly. • You have installed the correct type of memory. • If you changed the memory, you updated the memory configuration in the Setup utility. • 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. • There is no memory mismatch when the server is at the minimum memory configuration. 2. Reseat the DIMMs, and then restart the server. 3. Check the POST error log: • If a DIMM was disabled by a systems-management interrupt (SMI), replace the DIMM. • If a DIMM was disabled by the user or by POST, reseat the DIMM; then, run the Setup utility and enable the DIMM. 4. Check that all DIMMs are initialized in the Setup utility; then, run memory diagnostics (see "Running the DSA Preboot diagnostic programs" on page 78). 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. 6. Re-enable all DIMMs using the Setup utility, and then restart the server. 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. 8. (Trained technician only) Replace the system board.

Table 12. Memory problems and actions (continued)

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
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. 1. Reseat the DIMMs; then, restart the server. 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. 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. 4. Replace the highest-numbered DIMM of those identified; then, restart the server. Repeat as necessary. 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. 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. 7. (Trained technician only) Replace the system board.

Microprocessor problems

Use this information to solve microprocessor problems.

Table 13. Microprocessor's symptoms and actions

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
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 operator information panel or LCD operating panel assembly (see "Operator information panel" on page 20 or"LCD operating panel assembly" on page 21). 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**. 3. (Trained technician only) Make sure that microprocessor 1 is seated correctly. 4. (Trained technician only) Remove microprocessor 2 and restart the server. 5. Replace the following components one at a time, in the order shown, restarting the server each time: a. (Trained technician only) Microprocessor b. (Trained technician only) System board

Monitor and video problems

Use this information to solve monitor and video problems.

Some IBM 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.

Table 14. Monitor and video's symptoms and actions

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
Testing the monitor.	1. Make sure that the monitor cables are firmly connected. 2. Try using a different monitor on the server, or try using the monitor that is being tested on a different server. 3. Run the diagnostic programs. If the monitor passes the diagnostic programs, the problem might be a video device driver. 4. (Trained technician only) Replace the system board.

Table 14. Monitor and video's symptoms and actions (continued)

- **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**

Symptom	Action
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. 2. The IMM2.1 remote presence function is disabled if you install an optional video adapter. To use the IMM2.1 remote presence function, remove the optional video adapter. 3. If the server installed with the graphical adapters while turning on the server, the IBM logo displays on the screen after approximately 3 minutes. This is normal operation while the system loads. 4. Make sure that: • The server is turned on. If there is no power to the server, see "Power problems" on page 94. • The monitor cables are connected correctly. • The monitor is turned on and the brightness and contrast controls are adjusted correctly. 5. Make sure that the correct server is controlling the monitor, if applicable. 6. Make sure that damaged server firmware is not affecting the video; see "Updating the firmware" on page 35. 7. Observe the checkpoint LEDs on the system board; if the codes are changing, go to step 6. 8. Replace the following components one at a time, in the order shown, restarting the server each time: a. Monitor b. Video adapter (if one is installed) c. (Trained technician only) System board. 9. See "Solving undetermined problems" on page 104.
The monitor works when you turn on the server, but the screen goes blank when you start some application programs.	1. Make sure that: • The application program is not setting a display mode that is higher than the capability of the monitor. • You installed the necessary device drivers for the application. 2. Run video diagnostics (see "Running the DSA Preboot diagnostic programs" on page 78). • If the server passes the video diagnostics, the video is good; see "Solving undetermined problems" on page 104. • (Trained technician only) If the server fails the video diagnostics, replace the system board.

Table 14. Monitor and video's symptoms and actions (continued)

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
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. **Attention:** Moving a color monitor while it is turned on might cause screen discoloration. Move the device and the monitor at least 305 mm (12 inch) apart, and turn on the monitor. **Notes:** 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 inch). b. Non-IBM monitor cables might cause unpredictable problems. 2. Reseat the monitor cable. 3. Replace the components listed in step 2 one at a time, in the order shown, restarting the server each time: a. Monitor cable b. Video adapter (if one is installed) c. Monitor d. (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 35) with the correct language. 2. Reseat the monitor cable. 3. Replace the components listed in step 2 one at a time, in the order shown, restarting the server each time: a. Monitor cable b. Video adapter (if one is installed) c. Monitor d. (Trained technician only) System board.

Network connection problems

Use this information to solve network connection problems.

Table 15. Network connection problems and actions

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
The server will not connect to the network.	1. If the network adapter is newly installed, verify that it is supported by the server (see http://www.ibm.com/systems/info/x86servers/serverproven/compat/us). 2. Verify the network adapter slot power state and configuration (see "Using the Setup utility" on page 40). 3. Check to make sure that the server is properly connected to the network and that there is no damage to the network cables. 4. Check the firmware device driver. 5. Check the Retain Tips for related issues on IBM Support web site at http://www.ibm.com/supportportal.
The server intermittently looses connection.	1. Verify that the network router or switch is operating properly. 2. Check to make sure that the server is properly connected to the network. 3. Check the firmware device driver. 4. Check the Retain Tips for related issues on IBM Support web site at http://www.ibm.com/supportportal/.

Optional-device problems

Use this information to solve optional-device problems.

Table 16. Optional-device problems and actions

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
An IBM optional device that was just installed does not work.	1. Make sure that: • The device is designed for the server (see http://www.ibm.com/systems/info/x86servers/serverproven/compat/us). • You followed the installation instructions that came with the device and the device is installed correctly. • You have not loosened any other installed devices or cables. • You updated the configuration information in the Setup utility. Whenever memory or any other device is changed, you must update the configuration. 2. Reseat the device that you just installed. 3. Replace the device that you just installed.

Table 16. Optional-device problems and actions (continued)

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
An IBM optional device that worked previously does not work now.	1. Make sure that all of the cable connections for the device are secure. 2. If the device comes with test instructions, use those instructions to test the device. 3. If the failing device is a SCSI device, make sure that: • The cables for all external SCSI devices are connected correctly. • The last device in each SCSI chain, or the end of the SCSI cable, is terminated correctly. • Any external SCSI device is turned on. You must turn on an external SCSI device before you turn on the server. 4. Reseat the failing device. 5. Replace the failing device.

Power problems

Use this information to solve power problems.

Table 17. Power problems and actions

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
The power-control button does not work, and the reset button does not work (the server does not start). **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: a. Disconnect the server power cords. b. Reconnect the power cords. c. (Trained technician only) Reseat the operator information panel cable, and then repeat steps 1a and 1b. • (Trained technician only) If the server starts, reseat the operator information panel. If the problem remains, replace the operator information panel. • If the server does not start, bypass the power-control button by using the force power-on jumper (see "System-board switches, jumpers, and buttons" on page 28). If the server starts, reseat the operator information panel. If the problem remains, replace the operator information panel. 2. Make sure that the reset button is working correctly: a. Disconnect the server power cords. b. Reconnect the power cords. c. (Trained technician only) Reseat the operator information panel cable, and then repeat steps 2a and 2b. • (Trained technician only) If the server starts, replace the operator information panel. • If the server does not start, go to step 3. 3. Make sure that both power supplies installed in the server are of the same type. Mixing different ratings of power supplies in the server will cause a system error (CONFIG icon will be shown on the LCD system information display panel). 4. Make sure that: • The power cords are correctly connected to the server and to a working electrical outlet. • The type of memory that is installed is correct. • The DIMMs are fully seated. • The LEDs on the power supply do not indicate a problem. • The microprocessors are installed in the correct sequence. 5. Reseat the following components: a. Operator information panel connector b. Power supplies 6. Replace the components listed in step 5 one at a time, in the order shown, restarting the server each time. 7. 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. 8. See "Power-supply LEDs" on page 69. 9. See "Solving undetermined problems" on page 104.

Table 17. Power problems and actions (continued)

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
Pwr rail 1 error has been recorded in the system event log.	1. Disconnect the server power cords. 2. (Trained technician only) remove microprocessor 1 if the Pwr rail 1 error has been recorded in the system event log. 3. (Trained technician only) replace the system board (see "Removing the system board" on page 260 and "Replacing the system board" on page 263). 4. Reinstall the component; then, restarting the server. If the Pwr rail 1 error has been recorded in the system event log again, the component that you just reinstalled is defective. Replace the defective component. • (Trained technician only) Microprocessor 1 (see "Removing a microprocessor and heat sink" on page 247 and "Replacing a microprocessor and heat sink" on page 252).
Pwr rail 2 error has been recorded in the system event log.	1. Disconnect the server power cords. 2. (Trained technician only) remove microprocessor 2 if Pwr rail 2 error has been recorded in the system event log. 3. Restart the server. If the Pwr rail 2 error has been recorded in the IMM event log again, (trained technician only) replace the system board (see "Removing the system board" on page 260 and "Replacing the system board" on page 263). 4. Reinstall the component; then, restarting the server. If the Pwr Rail 2 error has been recorded in the system event log again, the component that you just reinstalled is defective. Replace the defective component. • (Trained technician only) Microprocessor 2 (see "Removing a microprocessor and heat sink" on page 247 and "Replacing a microprocessor and heat sink" on page 252).
Pwr rail 3 error has been recorded in the system event log.	1. Disconnect the server power cords. 2. Remove the following components if Pwr rail 3 error has been recorded in the system event log: • DIMMs 1 through 12 • Fan 3 • Fan 4 3. Restart the server. If the Pwr rail 3 error has been recorded in the system event log again, (trained technician only) replace the system board (see "Removing the system board" on page 260 and "Replacing the system board" on page 263). 4. Reinstall the components one at a time, in the order shown, restarting the server each time. If the Pwr rail 3 error has been recorded in the system event log again, the component that you just reinstalled is defective. Replace the defective component. • DIMMs 1 through 12 (see "Removing a memory module" on page 164 and "Memory module installation" on page 165). • Fan 3 (see "Removing a thermal kit (hot-swap fan)" on page 194 and "Replacing a thermal kit (hot-swap fan)" on page 195). • Fan 4

Table 17. Power problems and actions (continued)

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
Pwr rail 4 error has been recorded in the system event log.	1. Disconnect the server power cords. 2. Remove the following components if the Pwr rail 4 error has been recorded in the system event log: • Fan 5 • Fan 6 • DIMMs 13 through 24 3. Restart the server. If the Pwr rail 4 error has been recorded in the system event log again, (trained technician only) replace the system board (see "Removing the system board" on page 260 and "Replacing the system board" on page 263). 4. Reinstall the components one at a time, in the order shown, restarting the server each time. If the Pwr Rail 4 error has been recorded in the system event log again, the component that you just reinstalled is defective. Replace the defective component. • DIMMs 13 through 24 (see "Removing a memory module" on page 164 and "Memory module installation" on page 165). • Fan 5 (see "Removing a thermal kit (hot-swap fan)" on page 194 and "Replacing a thermal kit (hot-swap fan)" on page 195). • Fan 6
Pwr rail 5 error has been recorded in the system event log.	1. Disconnect the server power cords. 2. Remove the following components if the Pwr rail 5 error has been recorded in the system event log: • Fan 7 • Fan 8 • SAS/SATA hard disk drives and USB 3. Restart the server. If the Pwr rail 5 error has been recorded in the system event log again, (trained technician only) replace the system board (see "Removing the system board" on page 260 and "Replacing the system board" on page 263). 4. Reinstall the components one at a time, in the order shown, restarting the server each time. If the Pwr Rail 5 error has been recorded in the system event log again, the component that you just reinstalled is defective. Replace the defective component. • Hard disk drives and USB • Fan 7 (see "Removing a thermal kit (hot-swap fan)" on page 194 and "Memory module installation" on page 165). • Fan 8

Table 17. Power problems and actions (continued)

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
Pwr rail 6 error has been recorded in the system event log.	1. Disconnect the server power cords. 2. Remove the following components if the Pwr rail 6 error has been recorded in the system event log: • Optional cable for VGA external power • PCI-E x8 and x16 (maximum expansion is 4 adapter cards) • PCI-E hard disk drives 3. Restart the server. If the Pwr rail 6 error has been recorded in the system event log again, (trained technician only) replace the system board (see "Removing the system board" on page 260 and "Replacing the system board" on page 263). 4. Reinstall the components one at a time, in the order shown, restarting the server each time. If the Pwr Rail 6 error has been recorded in the system event log again, the component that you just reinstalled is defective. Replace the defective component. • Optional cable for VGA external power • PCI riser-card assembly (see "Removing a PCI riser-card assembly" on page 170 and "Replacing a PCI riser-card assembly" on page 172). • Hard disk drives
Pwr rail 7 error has been recorded in the system event log.	1. Disconnect the server power cords. 2. Remove the following components if the Pwr rail 7 error has been recorded in the system event log: • Fan 1 • Fan 2 3. Restart the server. If the Pwr rail 6 error has been recorded in the system event log again, (trained technician only) replace the system board (see "Removing the system board" on page 260 and "Replacing the system board" on page 263). 4. Reinstall the components one at a time, in the order shown, restarting the server each time. If the Pwr Rail 6 error has been recorded in the system event log again, the component that you just reinstalled is defective. Replace the defective component. • Fan 1 (see "Removing a thermal kit (hot-swap fan)" on page 194 and "Replacing a thermal kit (hot-swap fan)" on page 195). • Fan 2

Table 17. Power problems and actions (continued)

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
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: a. Press `Ctrl+Alt+Delete`. b. Turn off the server by pressing the power-control button and hold it down for 5 seconds. c. Restart the server. d. If the server fails POST and the power-control button does not work, disconnect the power cord for 20 seconds; then, reconnect the power cord and restart the server. 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 operator information panel are not lit.	See "Solving undetermined problems" on page 104.

Serial-device problems

Use this information to solve serial-device problems.

Table 18. Serial device problems and actions

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
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: • Each port is assigned a unique address in the Setup utility and none of the serial ports is disabled. • The serial-port adapter (if one is present) is seated correctly. 2. Reseat the serial port adapter. 3. Replace the serial port adapter.

Table 18. Serial device problems and actions (continued)

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
A serial device does not work.	1. Make sure that: • The device is compatible with the server. • The serial port is enabled and is assigned a unique address. • The device is connected to the correct connector (see "System-board internal connectors" on page 27). 2. Reseat the following components: a. Failing serial device b. Serial cable 3. Replace the components listed in step 2 one at a time, in the order shown, restarting the server each time. 4. (Trained technician only) Replace the system board.

ServerGuide problems

Use this information to solve ServerGuide problems.

Table 19. ServerGuide problems and actions

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
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) CD or DVD drive. 2. If the startup (boot) sequence settings have been changed, make sure that the CD or DVD drive is first in the startup sequence. 3. If more than one CD or DVD drive is installed, make sure that only one drive is set as the primary drive. Start the CD from the primary drive.
The MegaRAID Storage 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. 2. Make sure that the SAS/SATA 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.

Table 19. ServerGuide problems and actions (continued)

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
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

Use this information to solve software problems.

Table 20. Software problems and actions

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
You suspect a software problem.	1. To determine whether the problem is caused by the software, make sure that: • 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. • The software is designed to operate on the server. • Other software works on the server. • The software works on another server. 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. 3. Contact the software vendor.

Universal Serial Bus (USB) port problems

Use this information to USB port problems.

Table 21. Universal Serial Bus (USB) port problems and actions

• **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.ibm.com/supportportal/ to check for technical information, hints, tips, and new device drivers or to submit a request for information.**	
Symptom	**Action**
A USB device does not work.	1. Make sure that: • The correct USB device driver is installed. • The operating system supports USB devices. 2. Make sure that the USB configuration options are set correctly in the Setup utility (see "Using the Setup utility" on page 40 for more information). 3. If you are using a USB hub, disconnect the USB device from the hub and connect it directly to the server.

Video problems

Use this information to solve video problems.

See "Monitor and video problems" on page 89.

Solving power problems

Use this information to solve power problems.

About this task

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:

Procedure

1. Turn off the server and disconnect all power cords.
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.
3. Check for any errors indicated by the operator information panel or LCD operating panel assembly (see "Operator information panel" on page 20 or"LCD operating panel assembly" on page 21).
4. If the check log LED on the operator information panel is lit, check the IMM event log for faulty Pwr rail and complete the following steps. Table 22 on page 102 identifies the components that are associated with each Pwr rail and the order in which to troubleshoot the components.
   a. Disconnect the cables and power cords to all internal and external devices. Leave the power-supply cords connected.
   b. For Pwr rail 1 error, complete the following steps:
      1) (Trained technician only) Replace the system board.
      2) (Trained technician only) Replace the microprocessor.

c. For other rail errors (Pwr rail 1 error, see step 4b), remove each component that is associated with the faulty Pwr rail, one at a time, in the sequence indicated in Table 22, restarting the server each time, until the cause of the overcurrent condition is identified.

Table 22. Components associated with power rail errors

Pwr rail error in the IMM event log	Components
Pwr rail 1 error	• Microprocessor 1
Pwr rail 2 error	• Microprocessor 2
Pwr rail 3 error	• DIMMs 1 through 12 • Fan 3 • Fan 4
Pwr rail 4 error	• Fan 5 • Fan 6 • DIMMs 13 through 24
Pwr rail 5 error	• Fan 7 • Fan 8 • SAS/SATA hard disk drives and USB
Pwr rail 6 error	• Optional cable for VGA external power • PCI-E and x16 (maximum expansion is 4 adapter cards • PCI-E hard disk drives
Pwr rail 7 error	• Fan 1 • Fan 2

d. Replace the identified component.

5. 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 “Power-supply LEDs” on page 69 for the minimum configuration).
6. Reconnect all 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.

Results

If the server does not start from the minimum configuration, see “Power-supply LEDs” on page 69 to replace the components in the minimum configuration one at a time until the problem is isolated.

Solving 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.

About this task

Try the following procedures:

Procedure

- Make sure that the correct device drivers, which come with the server are installed and that they are at the latest level.
- 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.
- 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.
- 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.
- 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.
- Check for operating-system-specific causes of the problem.
- Make sure that the device drivers on the client and server are using the same protocol.

Results

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) did not diagnose the failure or if the server is inoperative, use the information in this section.

About this task

If you suspect that a software problem is causing failures (continuous or intermittent), see "Software problems" on page 100.

Corrupted data in CMOS memory or corrupted UEFI firmware can cause undetermined problems. To reset the CMOS data, use the CMOS jumper to clear the CMOS memory and override the power-on password; see Table 1 on page 29 for more information. If you suspect that the UEFI firmware is corrupted, see "Recovering the server firmware (UEFI update failure)" on page 106.

If the power supplies are working correctly, complete the following steps:

Procedure

1. Turn off the server.
2. Make sure that the server is cabled correctly.
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-IBM devices.
   - Each adapter.
   - Hard disk drives.
   - Memory modules. The minimum configuration requirement is 2 GB DIMM in slot 1.
4. Turn on the server.

Results

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 IBM.

The model name and serial number are located 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.

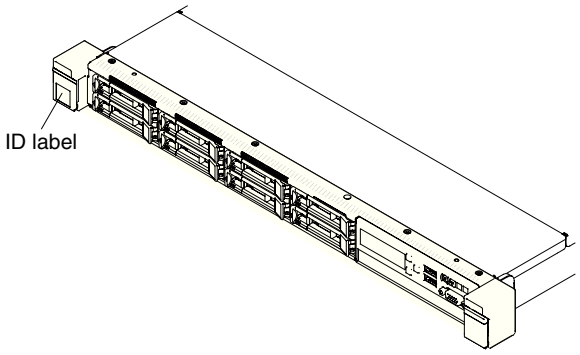

Figure 30. ID label

- 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 821 for information about calling IBM 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 IMM web interface to update the firmware, using the latest server firmware update package.

Note: 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 IBM service representative.

To download the server firmware update package from the World Wide Web, go to http://www.ibm.com/supportportal/.

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 (JP13), or in the case of image corruption, this will occur automatically with the Automated Boot Recovery function.

In-band manual recovery method

Use this information to recover the server firmware and restore the server operation to the primary bank.

About this task

To recover the server firmware and restore the server operation to the primary bank, complete the following steps:

Procedure

1. Read the safety information that begins on “Safety” on page vii and “Installation guidelines” on page 122.
2. Turn off the server, and disconnect all power cords and external cables.
3. Remove the cover (see “Removing the cover” on page 126).
4. Locate the UEFI boot backup jumper (JP13) on the system board.

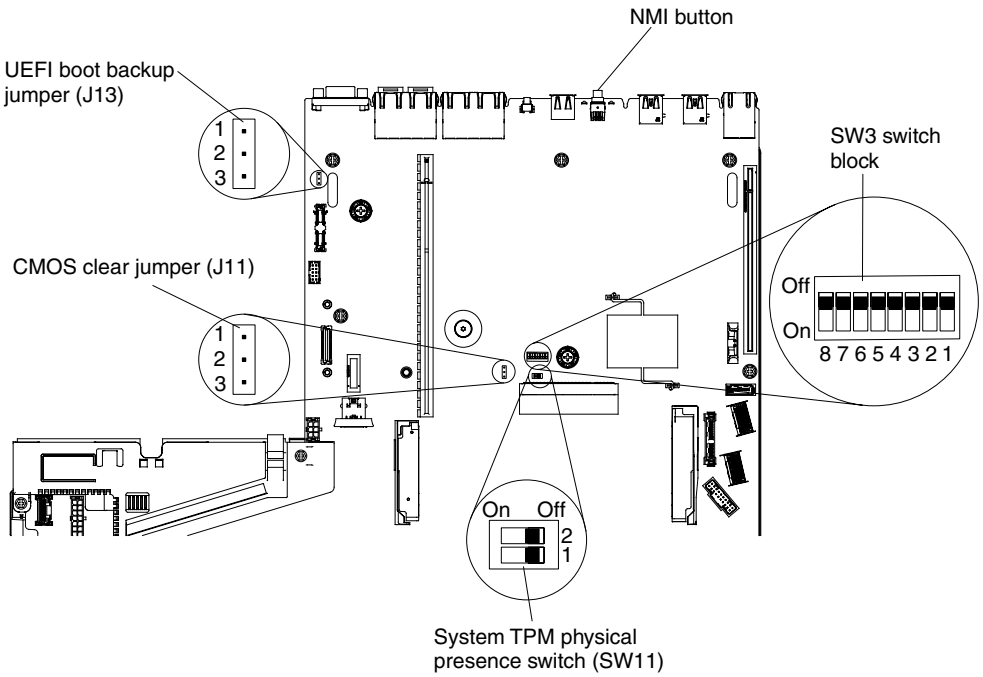

Figure 31. UEFI boot backup jumper (JP13) location

5. Move the UEFI boot backup jumper (JP13) from pins 1 and 2 to pins 2 and 3 to enable the UEFI recovery mode.
6. Reinstall the server cover; then, reconnect all power cords.
7. Restart the server. The system begins the power-on self-test (POST).
8. Boot the server to an operating system that is supported by the firmware update package that you downloaded.
9. Perform the firmware update by following the instructions that are in the firmware update package readme file.
10. Turn off the server and disconnect all power cords and external cables, and then remove the cover (see "Removing the cover" on page 126).
11. Move the UEFI boot backup jumper (JP13) from pins 2 and 3 back to the primary position (pins 1 and 2).
12. Reinstall the cover (see "Replacing the cover" on page 127).
13. Reconnect the power cord and any cables that you removed.
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.
15. Remove the cover (see "Removing the cover" on page 126).
16. Reset the CMOS by removing the system battery (see "Removing the system battery" on page 218).
17. Leave the system battery out of the server for approximately 5 to 15 minutes.
18. Reinstall the system battery (see "Replacing the system battery" on page 220).
19. Reinstall the cover (see "Replacing the cover" on page 127).
20. Reconnect the power cord and any cables that you removed.
21. Restart the server. The system begins the power-on self-test (POST).
22. If these recovery efforts fail, contact your IBM service representative for support.

In-band automated boot recovery method

Use this information to recover the server firmware and restore the server operation to the primary bank.

About this task

Note: Use this method if the BOARD LED 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.

Procedure

1. Boot the server to an operating system that is supported by the firmware update package that you downloaded.
2. Perform the firmware update by following the instructions that are in the firmware update package readme file.
3. Restart the server.
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

Use this information to recover the server firmware and restore the server operation to the primary bank.

See the IMM2.1 documentation (*Integrated Management Module II User's Guide*) at www.ibm.com/support/entry/portal/docdisplay?lndocid=MIGR-5089484&brandind=5000008.

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.

About this task

For instructions for recovering the UEFI firmware, see "Recovering the server firmware (UEFI update failure)" on page 106. After you have recovered the firmware in the primary bank, complete the following steps:

Procedure

1. Restart the server.
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

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 4. Parts listing, IBM System x3550 M5 Type 5463

The following replaceable components are available for the IBM System x3550 M5 Type 5463 server.

For an updated parts listing, go to http://www.ibm.com/supportportal/.

Replaceable server components

Replaceable components consist of consumable parts, 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 IBM acquires or installs a structural component at your request, you will be charged for the service. See "Structural parts" on page 117 for the list of structural parts.
- **Tier 1 customer replaceable unit (CRU):** Replacement of Tier 1 CRUs is your responsibility. If IBM 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 IBM 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 821.

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 117.

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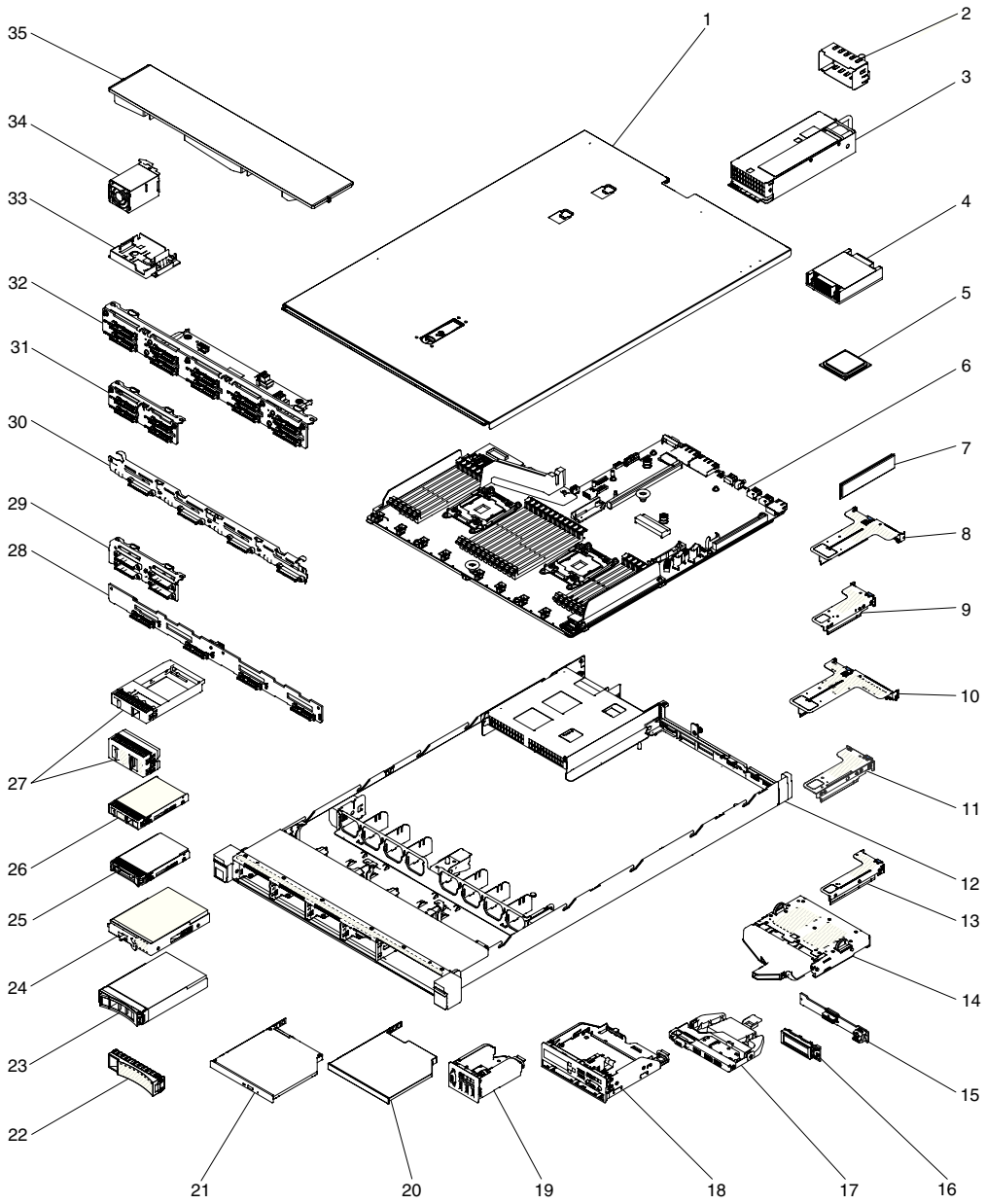

Figure 32. Server components

The following table lists the part numbers for the server replaceable components.

Index	Description	CRU part number (Tier 1)	CRU part number (Tier 2)
3	Power supply, 550 Watt, high efficiency, platinum, ac	94Y8137	
3	Power supply, 750 Watt, high efficiency, platinum, ac	94Y8144	
3	Power supply, 900 Watt, high efficiency, platinum, ac	94Y8148	
3	Power supply, 750 Watt, high efficiency, titanium, ac	94Y8150	
4	Heat sink		00KC912
4	Heat sink, Low T case		00KC911
5	Microprocessor, Intel E5-2690 v3, 2.6 GHz, 30 MB, 2133 MHz, 135 W (12-core)		00AE682

Index	Description	CRU part number (Tier 1)	CRU part number (Tier 2)
5	Microprocessor, Intel E5-2670 v3, 2.3 GHz, 30 MB, 2133 MHz, 120 W (12-core)		00AE684
5	Microprocessor, Intel E5-2640 v3, 2.6 GHz, 20 MB, 1866 MHz, 90 W (8-core)		00AE688
5	Microprocessor, Intel E5-2630 v3, 2.4 GHz, 20 MB, 1866 MHz, 85 W (8-core)		00AE689
5	Microprocessor, Intel E5-2630L v3, 1.8 GHz, 20 MB, 1866 MHz, 55 W (8-core)		00AE691
5	Microprocessor, Intel E5-2609 v3, 1.9 GHz, 15 MB, 1600 MHz, 85 W (6-core)		00AE692
5	Microprocessor, Intel E5-2603 v3, 1.6 GHz, 15 MB, 1600 MHz, 85 W (6-core)		00KC788
5	Microprocessor, Intel E5-2699 v3, 2.3 GHz, 45 MB, 2133 MHz, 145 W (18-core)		00KC789
6	System board		00KF629
7	Memory, 8 GB, 1Rx4, 1.2 V, DDR4, 2133MHz, RDIMM	46W0790	
7	Memory, 16 GB, 2Rx4, 1.2 V, DDR4, 2133MHz, RDIMM	46W0798	
7	Memory, 4 GB, 1Rx8, 1.2 V, DDR4, 2133MHz, RDIMM	46W0786	
7	Memory, 8 GB, 2Rx8, 1.2 V, DDR4, 2133MHz, RDIMM	46W0794	
8	PCIe Riser 2 assembly (2 x low profile; x8)	00KF626	
8	PCIe Riser 2 assembly (2 x low profile; x16)	00KF627	
9	PCIe Riser 1 assembly (1 x low-profile x16)	00KF624	
11	PCIe Riser 1 assembly (ML2 x16)	00KF625	
13	PCIe Riser 3 assembly (1 x low-profile x16)	00KF628	
14	2.5-inch hot-swap rear hard disk drive kit	00KC966	
15	Backplane, 2.5-inch hot-swap rear hard disk drive kit	00FJ718	
16	LCD system information display panel	00D0464	
17	Media cage, four 3.5-inch hard disk drives	00KF668	
18	Media cage, eight 2.5-inch hard disk drives	00KF670	
21	Ultraslim enhanced SATA DVD-ROM	00FL352	
21	Ultraslim enhanced SATA multi-burner	00FL353	
23	Hard disk drive, 3.5-inch hot-swap, Near-Line SATA, 2 TB, 7.2 K	00FN114	
23	Hard disk drive, 3.5-inch hot-swap, Near-Line SATA, 3 TB, 7.2 K	00FN129	
23	Hard disk drive, 3.5-inch hot-swap, Near-Line SATA, 4 TB, 7.2 K	00FN144	
23	Hard disk drive, 3.5-inch hot-swap, Near-Line SATA, 5 TB, 7.2 K	00FN159	
23	Hard disk drive, 3.5-inch hot-swap, Near-Line SATA, 6 TB, 7.2 K	00FN174	
23	Hard disk drive, 3.5-inch hot-swap, Near-Line SAS, 2 TB, 7.2 K	00FN189	
23	Hard disk drive, 3.5-inch hot-swap, Near-Line SAS, 4 TB, 7.2 K	00FN209	
23	Hard disk drive, 3.5-inch hot-swap, Near-Line SAS, 6 TB, 7.2 K	00FN229	
23	Hard disk drive, 3.5-inch hot-swap, Near-Line SATA, 4 TB, 7.2 K	49Y6003	
23	Hard disk drive, 3.5-inch hot-swap, Near-Line SATA, 2 TB, 7.2 K	81Y9795	
23	Hard disk drive, 3.5-inch hot-swap, Near-Line SATA, 3 TB, 7.2 K	81Y9799	

Index	Description	CRU part number (Tier 1)	CRU part number (Tier 2)
23	Hard disk drive, 3.5-inch hot-swap, Near-Line SAS, 2 TB, 7.2 K	90Y8573	
23	Hard disk drive, 3.5-inch hot-swap, Near-Line SAS, 3 TB, 7.2 K	90Y8578	
23	Self encrypting disk drive, 3.5-inch 512e Near-Line SAS, hot-swap, 2 TB 7.2K 12 Gbps	00FN239	
23	Self encrypting disk drive, 3.5-inch 512e Near-Line SAS, hot-swap, 4 TB 7.2K 12 Gbps	00FN249	
23	Self encrypting disk drive, 3.5-inch 512e Near-Line SAS, hot-swap, 6 TB 7.2K 12 Gbps	00FN259	
24	Hard disk drive, 3.5-inch simple-swap, Near-Line SATA, 2 TB, 7.2 K	00FN119	
24	Hard disk drive, 3.5-inch simple-swap, Near-Line SATA, 3 TB, 7.2 K	00FN134	
24	Hard disk drive, 3.5-inch simple-swap, Near-Line SATA, 4 TB, 7.2 K	00FN149	
24	Hard disk drive, 3.5-inch simple-swap, Near-Line SATA, 5 TB, 7.2 K	00FN164	
24	Hard disk drive, 3.5-inch simple-swap, Near-Line SATA, 6 TB, 7.2 K	00FN179	
24	Hard disk drive, 3.5-inch simple-swap, Near-Line SATA, 4 TB, 7.2 K	49Y6013	
24	Hard disk drive, 3.5-inch simple-swap, Near-Line SATA, 2 TB, 7.2 K	81Y9811	
24	Hard disk drive, 3.5-inch simple-swap, Near-Line SATA, 3 TB, 7.2 K	81Y9815	
25	Hard disk drive, 2.5-inch hot-swap, SAS, 1.2 TB, 10 K	46W6819	
25	Hard disk drive, 2.5-inch hot-swap, SAS, 900 GB, 10 K	00AJ072	
25	Hard disk drive, 2.5-inch hot-swap, SAS, 300 GB, 15 K	00AJ082	
25	Hard disk drive, 2.5-inch hot-swap, Near-Line SAS, 1 TB, 7.2 K	00AJ087	
25	Hard disk drive, 2.5-inch hot-swap, SAS, 600 GB, 10 K	00AJ092	
25	Hard disk drive, 2.5-inch hot-swap, SAS, 300 GB, 10 K	00AJ097	
25	Hard disk drive, 2.5-inch hot-swap, Near-Line SAS, 500 GB, 7.2 K	00AJ122	
25	Hard disk drive, 2.5-inch hot-swap, SAS, 600 GB, 15 K	00AJ127	
25	Hard disk drive, 2.5-inch hot-swap, Near-Line SATA, 500 GB, 7.2 K	00AJ137	
25	Hard disk drive, 2.5-inch hot-swap, Near-Line SATA, 1 TB, 7.2 K	00AJ142	
25	Solid state drive, 2.5-inch hot-swap, SATA, 400 GB	00AJ162	
25	Solid state drive, 2.5-inch hot-swap, SAS, 800 GB	00AJ218	
25	Solid state drive, 2.5-inch hot-swap, SATA, 480 GB	00AJ406	
25	Solid state drive, 2.5-inch hot-swap, SATA, 960 GB	00FN348	
26	Solid state drive, 2.5-inch simple-swap, SATA, 960 GB	00FN476	
28	Backplate, four 3.5-inch simple-swap hard disk drives	00KC956	
28	Backplate, four 3.5-inch simple-swap hard disk drives, 12G	00KC967	
29	Backplate, four 2.5-inch simple-swap hard disk drives,	00KC955	
29	Backplate, four 2.5-inch simple-swap hard disk drives, 12G	00KC968	
30	Backplane, four 3.5-inch hard disk drives	00FJ752	
31	Backplane, four 2.5-inch hard disk drives	00FJ755	
32	Backplane, ten 2.5-inch hard disk drives	00FJ758	
34	Thermal kit (hot-swap fan)	00KC909	
	Front USB assembly, four 3.5-inch hard disk drives	00KF669	
	Front USB assembly, eight 2.5-inch hard disk drives	00KF674	

Index	Description	CRU part number (Tier 1)	CRU part number (Tier 2)
	ServeRAID M5200 Series 4 GB Cahe (RAID 5 Upgrade)	47C8669	
	ServeRAID M5200 Series 1 GB Cahe (RAID 5 Upgrade)	47C8657	
	ServeRAID M5210 SAS/SATA Controller	46C9111	
	ServeRAID M1215 SAS/SATA Controller	46C9115	
	ServeRAID M5225 SAS/SATA Controller	00AE939	
	ServeRAID M5200 series 1 GB flash (RAID 5 upgrade)	47C8661	
	ServeRAID M5200 series 2 GB flash (RAID 5 upgrade)	47C8665	
	ServeRAID M5100 Series flash power module	00JY023	
	Emulex VFA5 ML2 dual port adapter	00AD918	
	Emulex 16Gb FC single-port HBA	00D8546	
	Emulex 16Gb FC dual-port HBA	00D8548	
	QLogic 16Gb FC single-port HBA	00Y3340	
	QLogic 16Gb FC dual-port HBA	00Y3344	
	QLogic 8Gb FC single-port HBA	00Y5628	
	QLogic 8Gb FC dual-port HBA	00Y5629	
	Emulex 8Gb FC single-port HBA	42D0491	
	Emulex 8Gb FC dual-port HBA	42D0500	
	Brocade 8Gb FC single-port HBA	46M6061	
	Brocade 8Gb FC dual-port HBA	46M6062	
	Brocade 16Gb FC single-port HBA	81Y1671	
	Brocade 16Gb FC dual-port HBA	81Y1678	
	N2215 SAS/SATA HBA	47C8676	
	Mellanox ConnectX-3 FDR VPI IB/E adapter	00D9552	
	Endeavor basic 10Gb BE3-R adapter	00D8543	
	Broadcom NetXtreme 2x10GbE BaseT adapter	00E2714	
	Intel X540 ML2 dual port 10GbaseT adapter	47C8152	
	Intel I350-T4 ML2 quad port GbE adapter	47C8210	
	Qlogic 8200 dual port 10GbE SFP+ VFA adapter	90Y4605	
	Broadcom NetXtreme I quad port GbE adapter	90Y9355	
	Broadcom NetXtreme I dual port GbE adapter	90Y9373	
	Intel Ethernet dual port server I340-T2 adapter	94Y5166	
	Intel Ethernet quad port server I340-T4 adapter	94Y5167	
	Broadcom NetXtreme dual port 10GbE SFP+ adapter	94Y5182	
	Broadcom NetXtreme II ML2 dual port 10GbE SFP+ adapter	94Y5231	
	Broadcom NetXtreme II ML2 dual port 10GbaseT adapter	94Y5233	
	N2225 SAS/SATA HBA	00AE914	
	N2226 SAS/SATA HBA	00AE918	
	Video adapter, NVIDIA Quadro K600	90Y2383	
	PCI bracket 1	00KF686	
	PCI bracket 2	00KF689	

Index	Description	CRU part number (Tier 1)	CRU part number (Tier 2)
	Rear hard disk drive cage	00KF690	
	PCIe Riser 3 assembly cage	00KF691	
	Cable, GPU power	00KC964	
	Cable, power	00KC957	
	Cable, flash power module	46C9793	
	Cable, UMIQ-V2	00AK143	
	Cable, SAS 750 mm	00KC952	
	Cable, SAS 600 mm	00KC953	
	Cable, SAS 550 mm	00KC954	
	Cable, mini SAS 0.6 m	00D2142	
	Cable, mini SAS 1.5 m	00D2144	
	Cable, mini SAS 3 m	00D2148	
	Cable, mini SAS 1 m	39R6530	
	Cable, mini SAS 3 m	39R6532	
	Cable, mini SAS 6 m	44X3322	
	Cable, DVD 480 mm	00KC958	
	Cable, DVD 790 mm	00KC959	
	Cable, backplane, four 2.5-inch hot-swap hard disk drive	00KC960	
	Cable, backplane, ten 2.5-inch hot-swap hard disk drive	00KC961	
	Cable, backplane, four 3.5-inch hot-swap hard disk drive	00KC962	
	Cable, video	00KC963	
	Cable, video 2.5"	00KG408	
	Cable, LCD system information display panel	00MU415	
	Cable, USB conversion	39M2909	
	Cable, USB 3 m	44E8891	
	Cable, USB 1 m	44E8893	
	Cable, USB dongle	44E8894	
	Cable, USB 3.0	46C2598	
	Cable, USB	46M6475	
	Cable, USB	46M6477	
	Cable, USB	81Y3643	
	SAS Y cable	49Y9901	
	Cord, power cord	39M5377	
	Cord, power cord	39M5509	
	Operator information panel, 3.5-inch hard disk drive bay	00KC940	
	Operator information panel, 2.5-inch hard disk drive bay	00KF673	
	PCIe Riser 1, low-profile bracket	00KF687	
	PCIe Riser 2, 2 x low-profile bracket	00KF688	
	Miscellaneous parts kit	00KF685	
	Battery, 3.0 volt	33F8354	

Index	Description	CRU part number (Tier 1)	CRU part number (Tier 2)
	Thermal grease kit		41Y9292
	Alcohol wipes		59P4739
	Microprocessor installation tool		00AE535
	CMA kit, 1U	00KA595	
	CMA kit	49Y4817	
	COM port bracket	00KC965	
	Adapter, DVI to VGA adapter	25R9043	
	Half high LTO Gen 6 SAS tape drive	35P1049	
	USB optical wheel mouse	39Y9875	
	QLogic 10Gb virtual fabric and SR optical transceiver	42C1816	
	Brocade 10Gb SFP+ SR optical transceiver	46C9297	
	USB backplate	44E8877	
	Internal RDX USB 3.0 drive dock	46C2346	
	External RDX USB 3.0 drive dock	46C2347	
	10Gb SFP + SR transceiver	46C3449	
	RDX 320 GB cartridge	46C5394	
	RDX 500 GB cartridge	46C5395	
	External RDX power adapter	81Y8905	
	UltraNav keyboard USB	94Y6108	
	US E 103P-RoHS keyboard	94Y6050	
	Label, system service	00KF684	
	Front USB assembly, ten 2.5-inch hard disk drives	00KF694	

Structural parts

Structural parts are not covered by the IBM Statement of Limited Warranty. The following structural parts are available for purchase from the retail store.

Table 23. Structural parts, Type Type 5463

Index	Description	Part number
1	Top cover	00KF667
2	Power supply bay filler	94Y7610
12	Chassis, four 3.5-inch hard disk drives	00KF662
12	Chassis, eight 2.5-inch hard disk drives	00KF663
12	Chassis, ten 2.5-inch hard disk drives	00KF664
19	Media cage, ten 2.5-inch hard disk drives	00KF678
20	Filler, DVD drive	00KF416
22	Filler, 3.5-inch hot-swap hard disk drive	69Y5364
22	Filler, 3.5-inch simple-swap hard disk drive	69Y5368
27	Filler, 2.5-inch hard disk drive bay	00FW856
27	Filler, 2.5-inch hard disk drive bay (rear)	00KF683
33	Battery holder	00KF677

Table 23. Structural parts, Type Type 5463 (continued)

Index	Description	Part number
35	Air baffle, 3.5-inch hard disk drive bay	00KF665
35	Air baffle, 2.5-inch hard disk drive bay	00KF666
	Bezel, eight 2.5-inch hard disk drives (no LCD system information display panel)	00KF672
	Bezel, ten 2.5-inch hard disk drives	00KF679
	Bracket, left EIA	00KF675
	Bracket, right EIA	00KF676
	Bracket, ML2 for Broadcom NetXtreme II ML2 Dual Port 10GbaseT	00KF696
	Bracket, ML2 for Intel X540 ML2 Dual Port 10GbaseT adapter	00KF697
	Bracket, ML2 for Emulex VFA5 ML2 Dual Port 10GbE SFP+ adapter	00KF698
	Bracket, ML2 for Broadcom NetXtreme II ML2 Dual Port 10GbE SFP+	00KF699
	Bracket, ML2 for Intel I350-T4 ML2 Quad Port GbE adapter	00KG300
	Bracket, four 2.5-inch backplane	00KF692
	Bracket, ten 2.5-inch backplane	00KF693
	Filler, thermal kit (hot-swap fan)	00KF682
	Slide rail kit, universal, Gen-II	00KA593
	Security bezel	00KF695
	Slide kit G4	00KA592

To order a structural part, complete the following steps:

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.

Note: Changes are made periodically to the IBM website. The actual procedure might vary slightly from what is described in this document.

If you need help with your order, call the toll-free number that is listed on the retail parts page, or contact your local IBM 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.

IBM 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 for system input rating below 10 A or 16 AWG when over 10 A, 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	Denmark
39M5144	Bangladesh, Lesotho, Macao, Maldives, Namibia, Nepal, Pakistan, Samoa, South Africa, Sri Lanka, Swaziland, Uganda

Power cord part number	Used in these countries and regions
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 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 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
39M5219	Korea (Democratic People's Republic of), Korea (Republic of)
39M5199	Japan
39M5068	Argentina, Paraguay, Uruguay
39M5226	India
39M5240	Brazil

Chapter 5. Removing and replacing components

There are three types of replaceable components.

- **Structural parts:** Purchase and replacement of structural parts (components, such as chassis assembly, top cover, and bezel) is your responsibility. If IBM 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 IBM 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 IBM to install it, at no additional charge, under the type of warranty service that is designated for your server.

See Chapter 4, "Parts listing, IBM System x3550 M5 Type 5463," on page 111 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 821.

Installing optional devices

This section 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, IBM Business Partners must also complete the steps in "Instructions for IBM Business Partners" on page 125.

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

1. Make sure that the server and the installed firmware levels support the devices that you are installing. If necessary, update the UEFI and IMM 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 35. For a list of supported optional devices for the server, see http://www.ibm.com/systems/info/x86servers/serverproven/compat/us.
2. Use the best practices to apply current firmware and device-driver updates for the server and optional devices. To download the "IBM System x Firmware Update Best Practices" document, go to www.ibm.com/support/entry/portal/docdisplay?lndocid=MIGR-5082923&brandind=5000008. Additional hints and tips are available from the following sites:
   - IBM support: http://www.ibm.com/supportportal/
   - System x configuration tools: http://www.ibm.com/systems/x/hardware/configtools.html
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

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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 the DSA Preboot diagnostic programs" on page 78 for information about how to run diagnostics.

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.

Installation guidelines

Use this information for installation.

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 vii, the guidelines in "Working inside the server with the power on" on page 124, and "Handling static-sensitive devices" on page 124. 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.ibm.com/systems/info/x86servers/serverproven/compat/us.
- 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 http://publib.boulder.ibm.com/infocenter/toolsctr/v1r0/.
- 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 the DSA Preboot diagnostic programs" on page 78 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, a small Phillips screwdriver, and a T8 torx 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

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.
- Each of the power-supply bays has a power supply or a filler 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 fan within 30 seconds of removal.
- You have replaced a hot-swap drive within 2 minutes of removal.
- You have replaced a failed hot-swap power supply within 2 minutes of removal.
- You do not operate the server without the air baffle installed. Operating the server without the air baffle might cause the microprocessor to overheat.
- Microprocessor socket 2 always contains either a socket cover or a microprocessor and heat sink.

- You have installed the fourth and sixth fans when you installed the second microprocessor option.

Working inside the server with the power on

Use this information when working 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.

You might have to have the server turned on while the cover is off, to look at light path diagnostics LEDs or replace hot swap components. Follow these guidelines when you work inside a server that is turned on:

- 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.

Updating 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 integrated Gigabit Ethernet controller, see "Configuring the Ethernet controller" on page 52.

Instructions for IBM Business Partners

This section contains instructions for IBM Business Partners.

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 "IBM Dynamic System Analysis" on page 77.
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 IBM. For information about transferring data and logs, see "How to send DSA data to IBM."
4. To ship the server, repackage it in the original undamaged packing material and observe IBM procedures for shipping.

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

How to send DSA data to IBM

Use the IBM 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 to IBM:

- **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

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.

Removing and replacing server components

This section provides information for removing and replacing components in the server.

Removing and replacing consumable and structural parts

Replacement of consumable and structural parts is your responsibility. If IBM installs a consumable and 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 cover

Use this information to remove the cover.

About this task

To remove the server cover, complete the following steps:

Procedure

1. Read the safety information that begins on “Safety” on page vii and “Installation guidelines” on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords and all external cables, if necessary.
3. If the server has been installed in a rack, slide the server out from the rack enclosure.
4. Remember to check if the cover is locked. If it is locked, unlock the cover first.

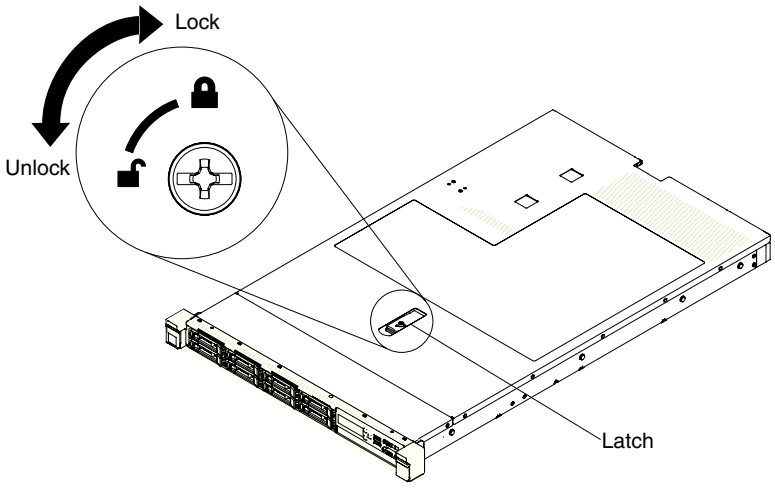


Figure 33. Unlocking cover

5. Press in on the blue tab on the cover-release latch and lift the cover release latch up (the cover slides to the rear).

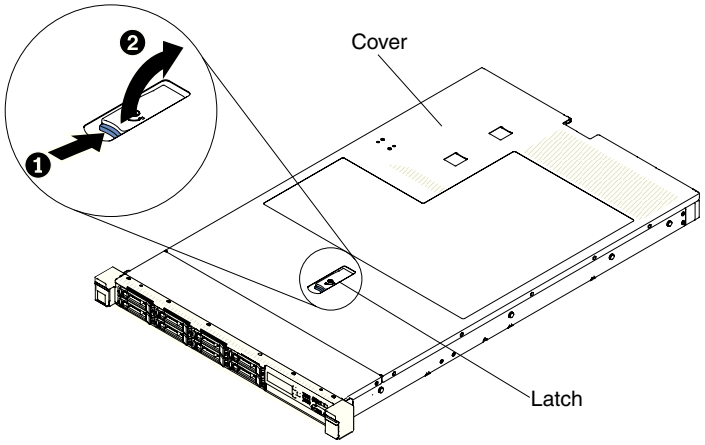


Figure 34. Cover removal

6. Lift the server cover off the server and set it aside.

   Attention: For proper cooling and airflow, replace the server cover before you turn on the server.

Replacing the cover

Use this information to replace the cover.

About this task

To replace the server cover, complete the following steps:

Procedure

1. 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.
2. Position the cover on top of the server.
3. Slide the cover toward the front of the server.
4. Make sure that the cover correctly engages all the inset tabs on the server.
5. Press down on the blue latch on the top (in the center of the front of the server) of the cover.

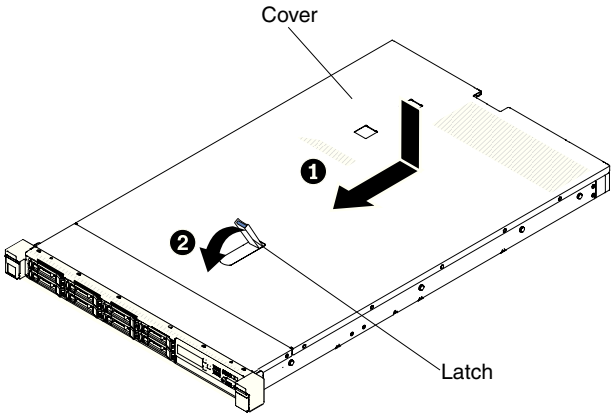


Figure 35. Cover installation

6. If necessary, lock the cover.

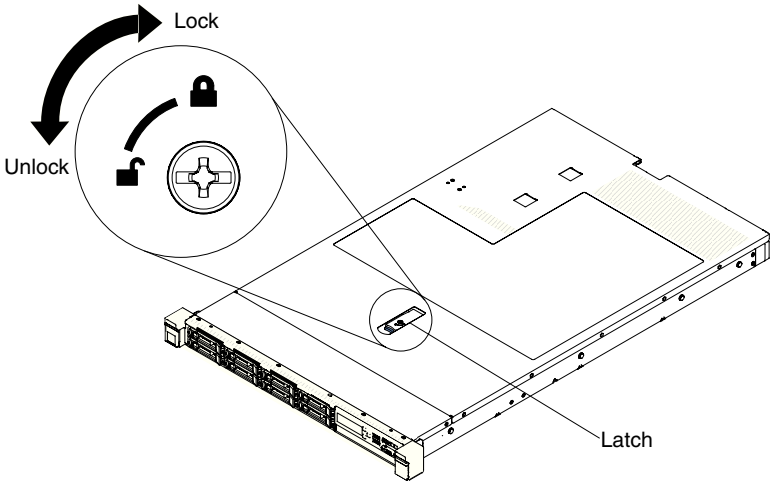


Figure 36. Locking cover

7. Slide the server back into the rack until it latches.
8. Reconnect the external cables and power cords.

Removing the air baffle

Use this information to remove the air baffle.

About this task

To remove the air baffle, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords and all external cables (see "Turning off the server" on page 32).
3. Remove the cover (see "Removing the cover" on page 126).
4. Grasp the air baffle, disengage pins from pin holes; then, lift the air baffle up and set it aside.

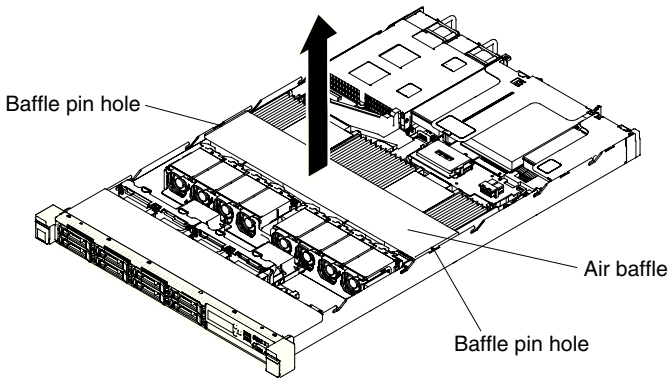


Figure 37. Air baffle removal

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.

Replacing the air baffle

Use this information to replace the air baffle.

About this task

To install the air baffle, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords and all external cables.
3. Remove the cover (see "Removing the cover" on page 126).
4. Align the air baffle pins with the baffle pin holes on both sides of the chassis; then, lower the air baffle into the server. Press the air baffle down until it is securely seated.

Note: Close the retaining clip on each end of the DIMM connector before installing the air baffle for proper cooling.

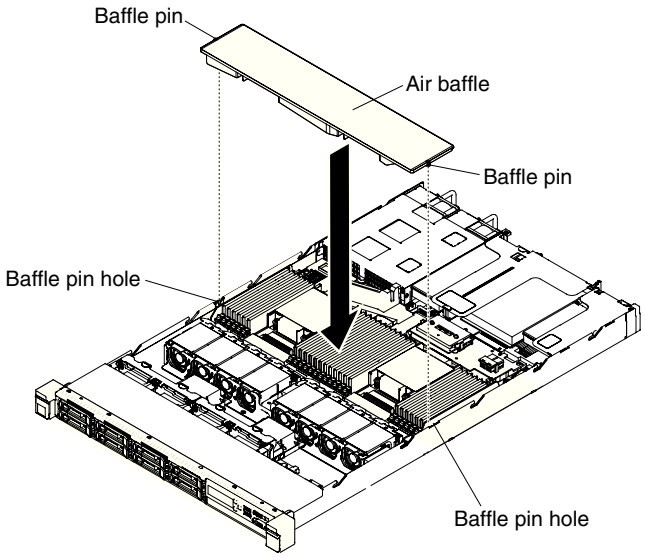


Figure 38. Air baffle installation

5. Reinstall the cover (see "Replacing the cover" on page 127).
6. Slide the server into the rack.
7. Reconnect the power cords and any cables that you removed.
8. Turn on the peripheral devices and the server.

Removing a RAID adapter battery or flash power module

Use this information to remove a remotely installed RAID adapter battery or flash power module.

About this task

To remove a RAID adapter battery or flash power module, complete the following steps:

Note: The 2.5-inch hard disk drive server model supports up to two RAID adapter batteries or flash power modules, while the 3.5-inch hard disk drive server model supports only one RAID adapter battery or flash power module.

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect all power cords.
3. Remove the cover (see "Removing the cover" on page 126).
4. Disconnect the cable from the connector on the battery or power module.

   Note: The cable routing is different between 2.5-inch and 3.5-inch hard disk drive server models.

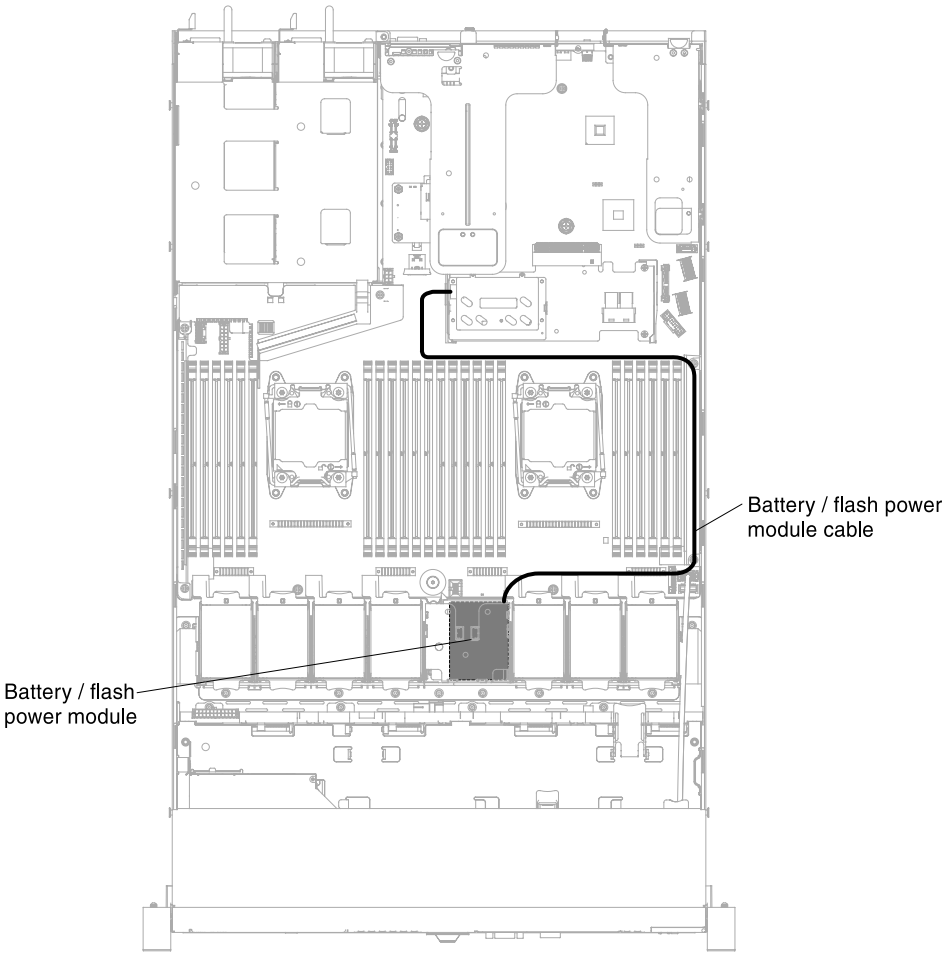


Figure 39. RAID adapter battery or flash power module cable routing for 3.5-inch hard disk drive server models.

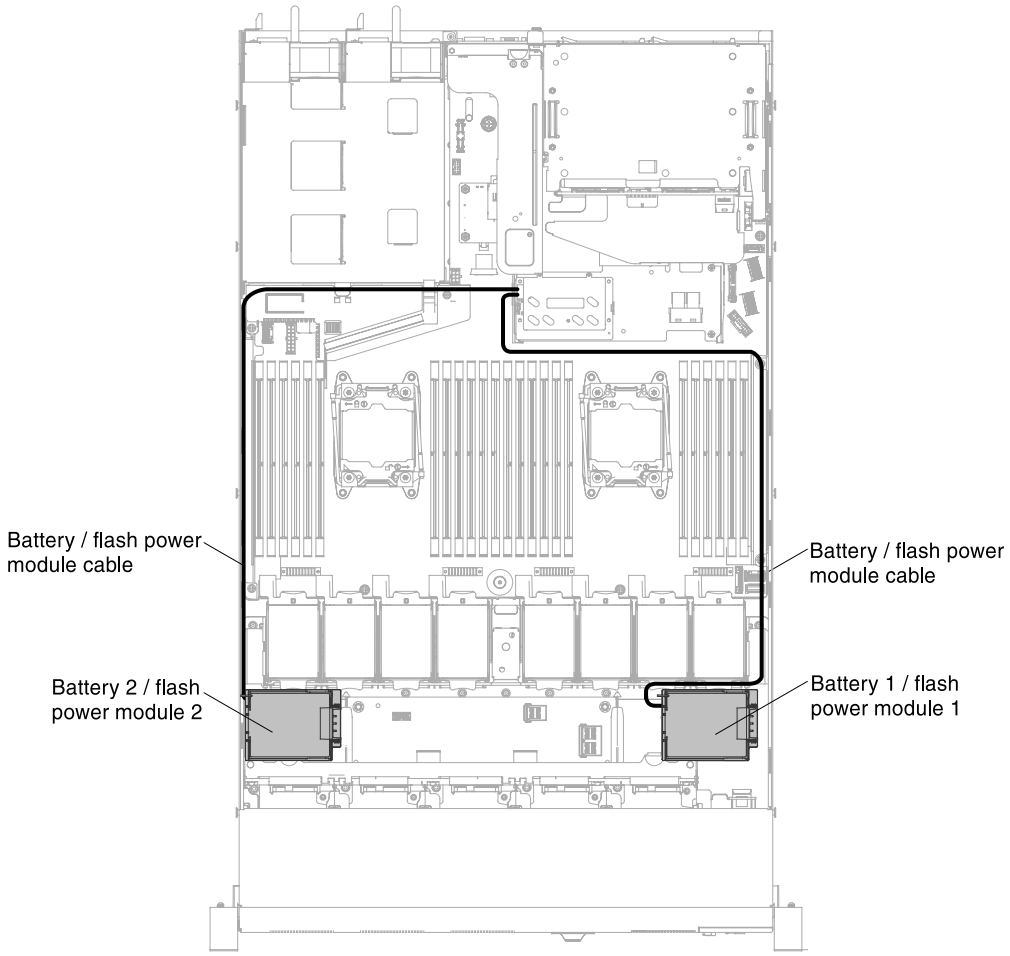


Figure 40. RAID adapter battery or flash power module cable routing for 2.5-inch hard disk drive server models.

5. Remove the RAID adapter battery or flash power module from the chassis.

   Steps for removing the RAID adapter battery or flash power module for 2.5-inch hard disk drive server models.

   a. Open the retention clip to remove the battery or power module.

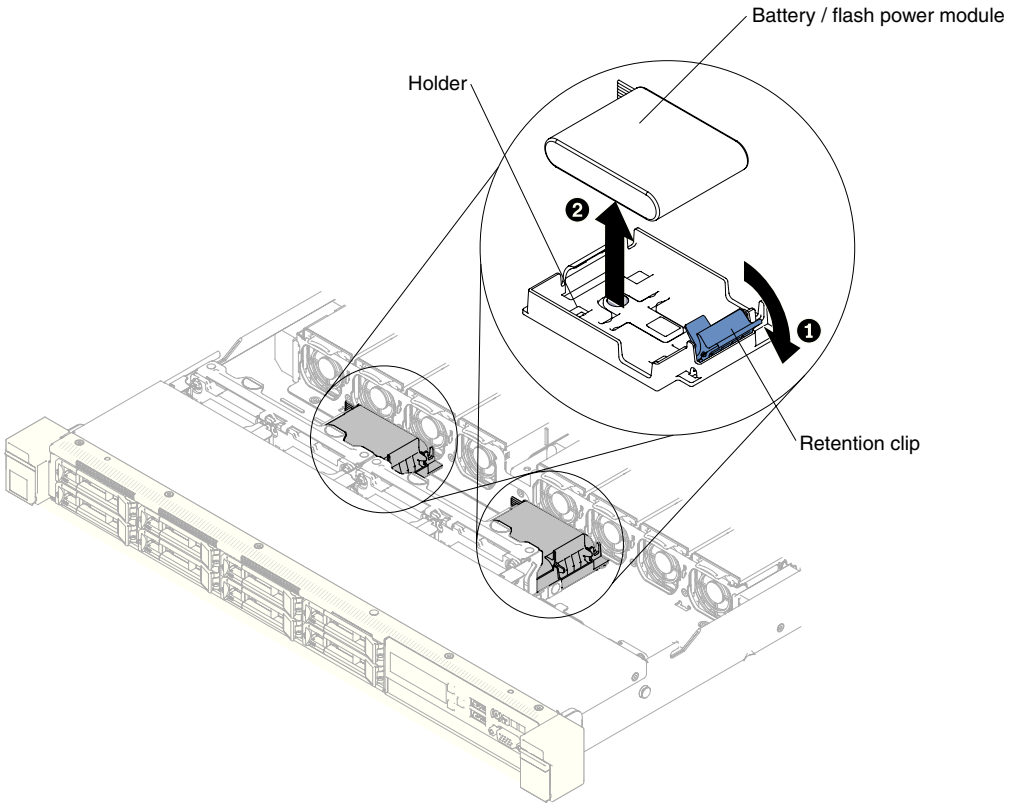


Figure 41. RAID adapter battery or flash power module removal for 2.5-inch hard disk drive server models

Steps for removing the RAID adapter battery or flash power module for 3.5-inch hard disk drive server models.

a. Press the blue release tabs and rotate the battery or power module holder upward.

b. Slightly press the retention clip outward to remove the battery or power module.

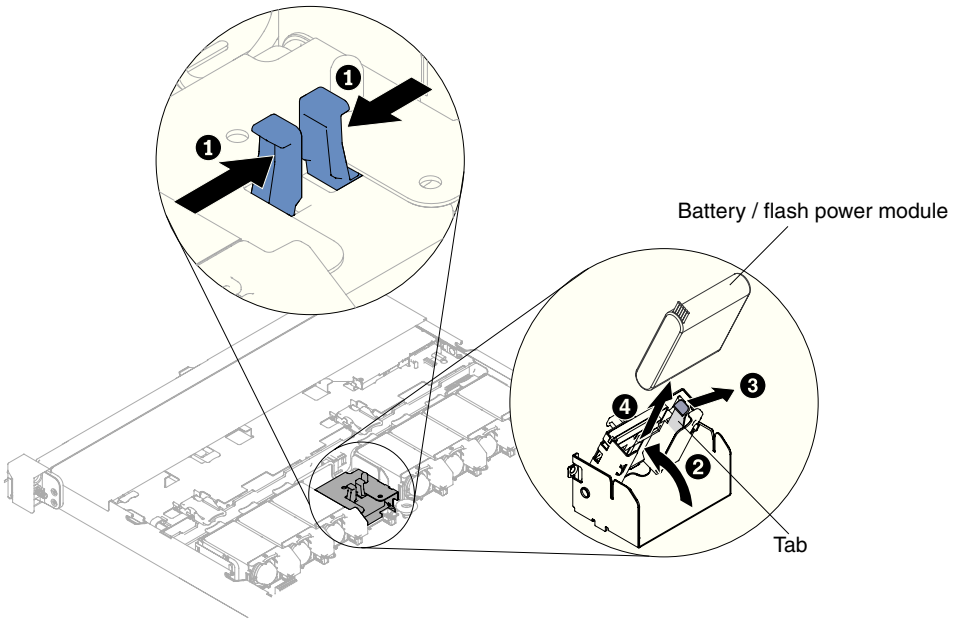


Figure 42. RAID adapter battery or flash power module removal for 3.5-inch hard disk drive server models

Results

If you are instructed to return the RAID adapter battery or flash power module, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing a RAID adapter battery or flash power module

Use this information to replace a RAID adapter battery or flash power module.

About this task

When you install any RAID adapter that comes with batteries or flash power modules, it is sometimes necessary to install the batteries or flash power modules in another location in the server to prevent the batteries or flash power modules from overheating. Depending on your server model, a battery or flash power module must be installed remotely near the optical drive cage or the backplane.

To install a RAID adapter battery in the server, complete the following steps:

Note: The 2.5-inch hard disk drive server model supports up to two RAID adapter batteries or flash power modules, while the 3.5-inch hard disk drive server model supports only one RAID adapter battery or flash power module.

Procedure

1. Read the safety information that begins on “Safety” on page vii and “Installation guidelines” on page 122.
2. Turn off the server and peripheral devices and disconnect all power cords and external devices.
3. Remove the cover (see “Removing the cover” on page 126).
4. Install the ServeRAID adapter on the system board (see “Replacing a ServeRAID SAS/SATA controller” on page 187) or install the ServeRAID

adapter on the riser card and install the riser-card assembly in the server (see “Replacing an adapter” on page 180 and “Replacing a PCI riser-card assembly” on page 172).

5. Connect one end of the cable to the RAID adapter memory module.
6. Route the cable along the chassis.

Note: The cable routing is different between 2.5-inch and 3.5-inch hard disk drive server models.

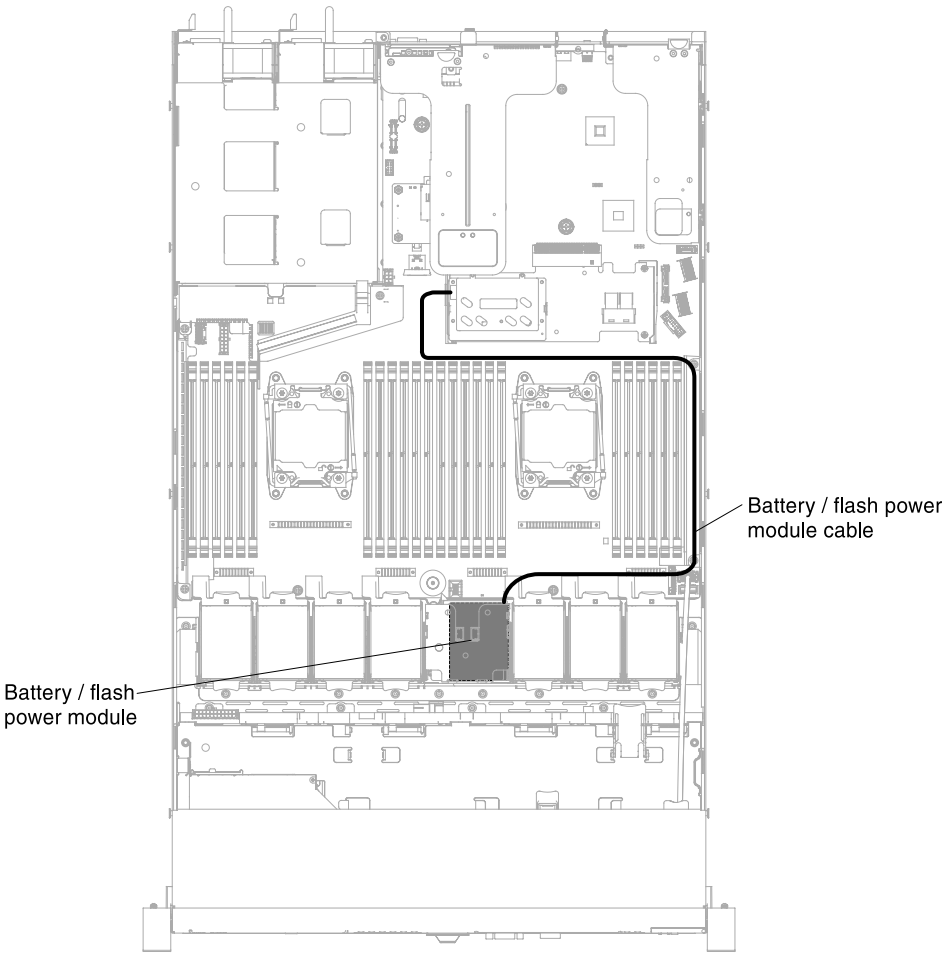


Figure 43. RAID adapter battery or flash power module cable connection for 3.5-inch hard disk drive server models.

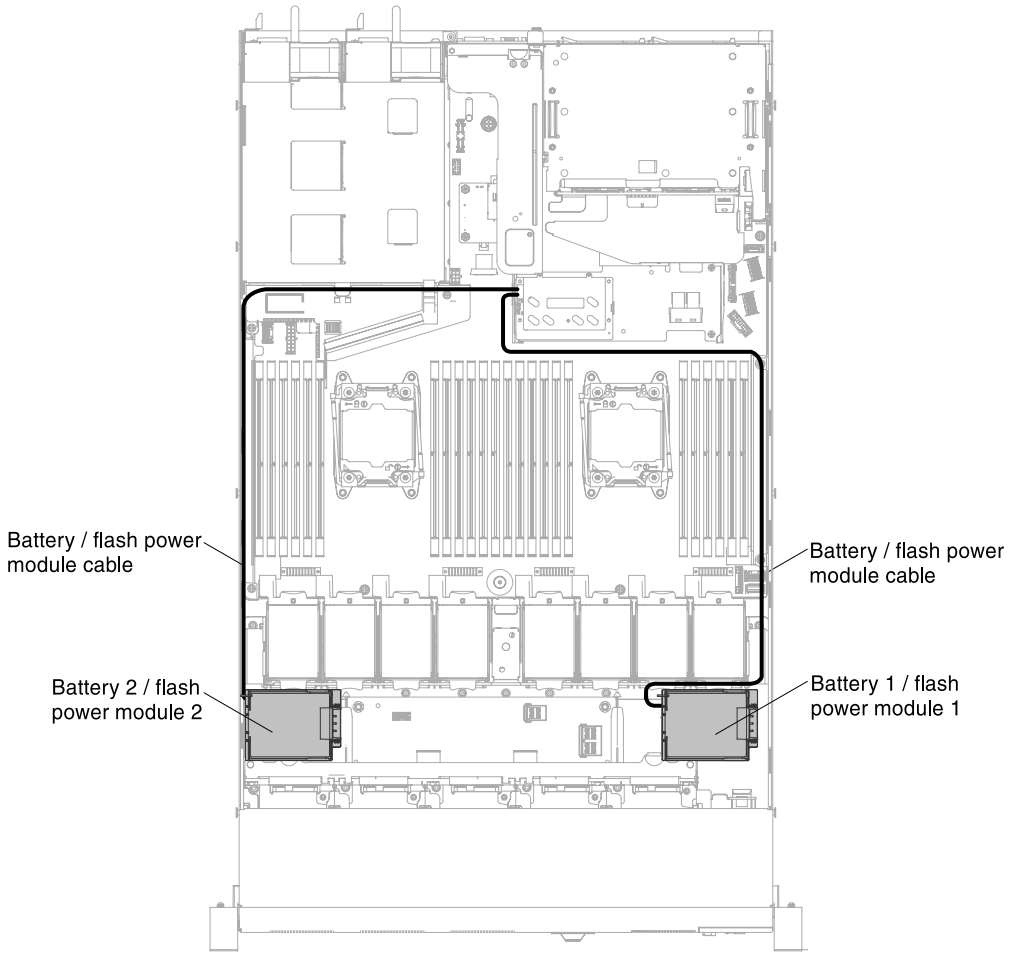


Figure 44. RAID adapter battery or flash power module cable connection for 2.5-inch hard disk drive server models.

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

7. Remove any cable covering or obstructing the holder before opening the holder.
8. Install the battery or flash power module.

   Steps for installing the RAID adapter battery or flash power module for 2.5-inch hard disk drive server models.

   a. Release the retention clip in the open position.
   b. Align the cable connector with the slot on the holder. Place the battery or flash power module into the holder and make sure that the holder engages the battery or flash power module securely.

      Note: The positioning of the battery or flash power module depends on the type of the battery or flash power module that you install.

   c. Connect the other end of the cable to the battery or flash power module.
   d. Press down on the retention clip until it snaps in place to hold the battery or flash power module firmly in place.

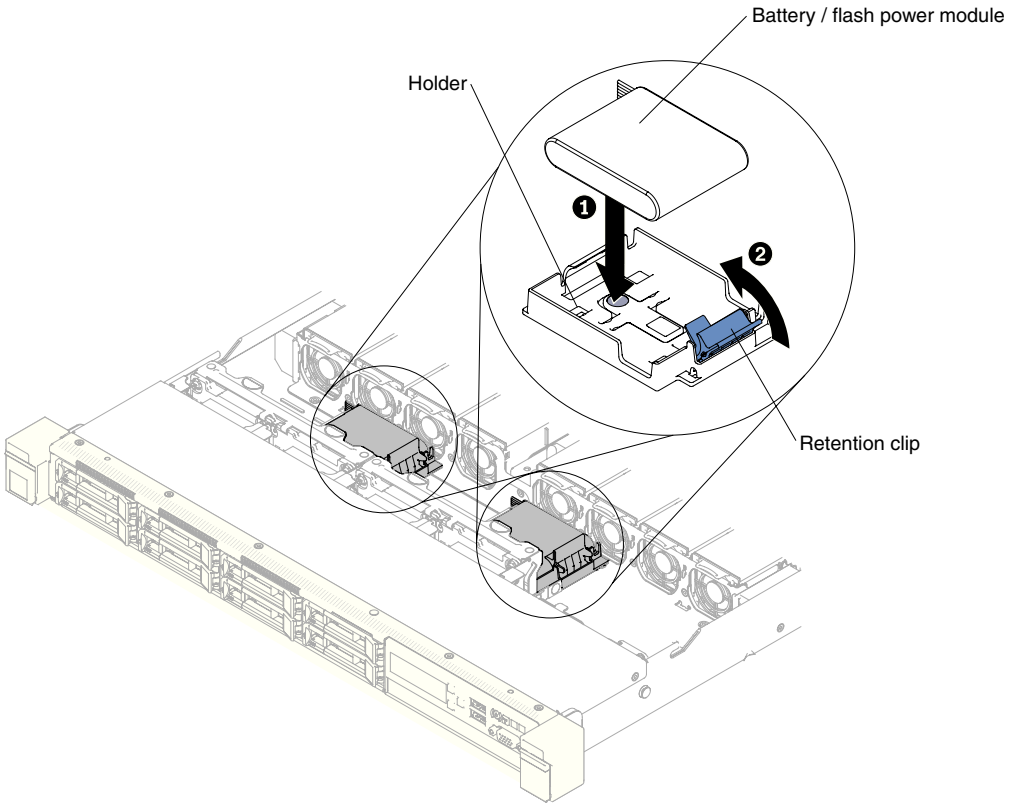


Figure 45. RAID adapter battery or flash power module installation for 2.5-inch hard disk drive server models

Steps for installing the RAID adapter battery or flash power module for 3.5-inch hard disk drive server models.

a. Press the blue release tabs and lift the battery or power module holder upward.

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

c. Connect the other end of the cable to the battery or flash power module.

d. Press the blue release tabs and lower the battery or power module holder into the chassis.

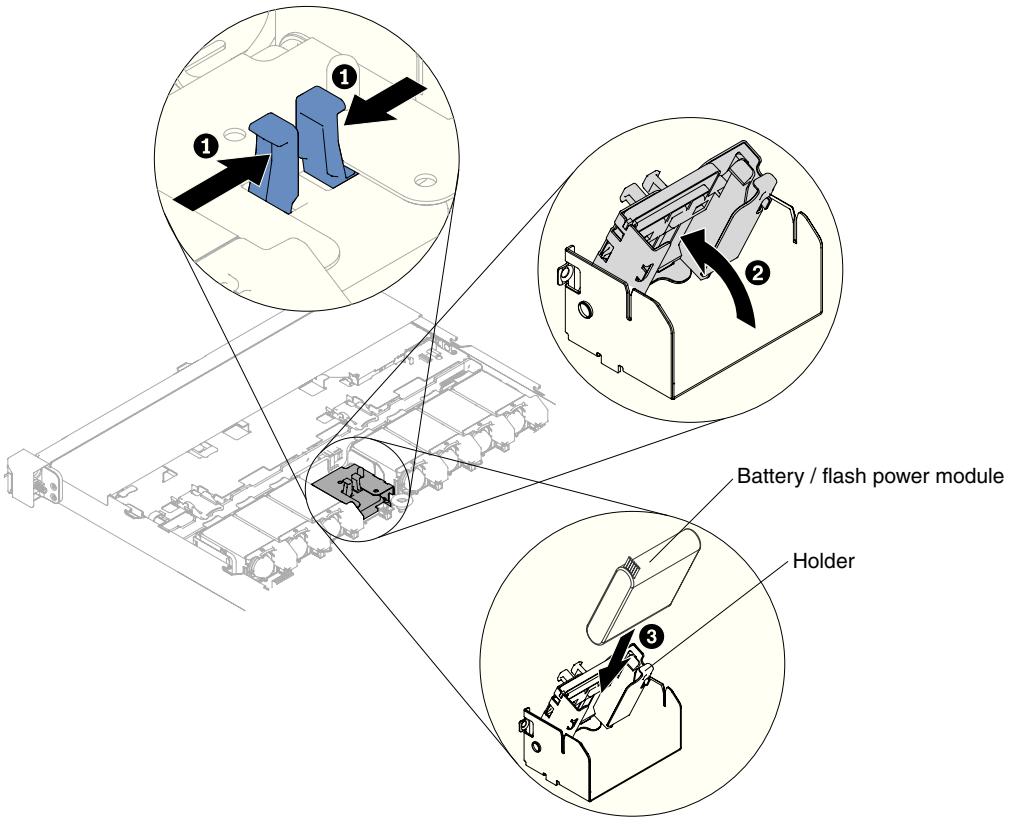


Figure 46. RAID adapter battery or flash power module installation for 3.5-inch hard disk drive server models

9. Reinstall the cover (see "Replacing the cover" on page 127).
10. Slide the server into the rack.
11. 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.

About this task

To remove a RAID adapter battery or flash power module holder, complete the following steps:

Note: The following steps only applies to 2.5-inch hard disk drive server models. The RAID adapter battery or flash power module holder cannot be removed for 3.5-inch hard disk drive server models.

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect all power cords; then, remove the cover (see "Removing the cover" on page 126).

3. Remove the RAID adapter battery or flash power module (see “Removing a RAID adapter battery or flash power module” on page 130).
4. To remove the holder, press the blue release tab; then, slide the holder away from the chassis.

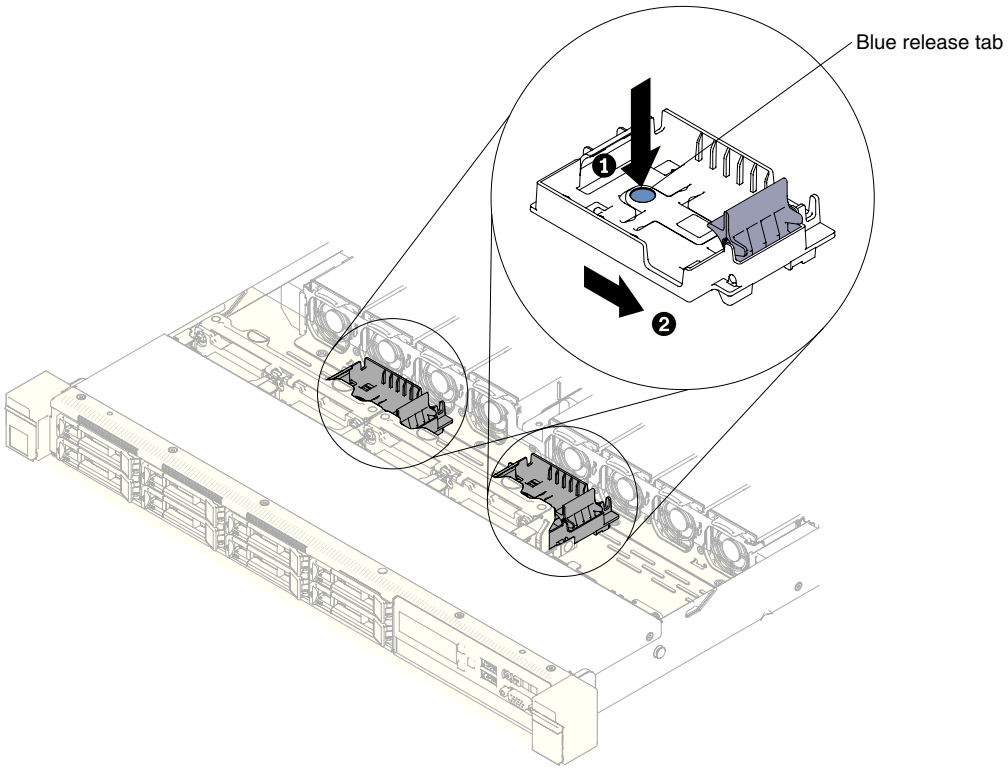


Figure 47. RAID adapter battery or flash power module holder removal

Results

If you are instructed to return the RAID adapter battery or flash power module holder, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing a RAID adapter battery or flash power module holder

Use this information to replace a RAID adapter battery or flash power module holder.

About this task

To install a RAID adapter battery or flash power module holder, complete the following steps:

Note: The following steps only applies to 2.5-inch hard disk drive server models. The RAID adapter battery or flash power module holder cannot be removed for 3.5-inch hard disk drive server models.

Procedure

1. Read the safety information that begins on “Safety” on page vii and “Installation guidelines” on page 122.

2. Turn off the server and peripheral devices and disconnect all power cords and external devices; then, remove the cover (see “Removing the cover” on page 126).
3. Slide the tray until it snaps into position in the chassis.

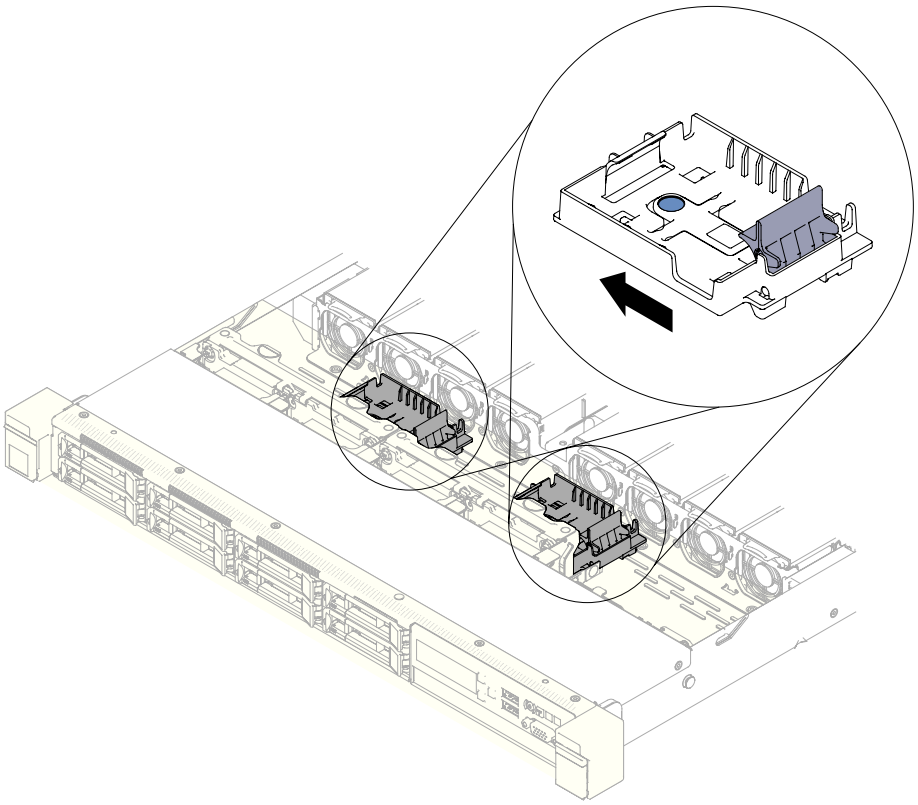


Figure 48. RAID adapter battery or flash power module holder installation

4. Reinstall the cover (see “Replacing the cover” on page 127).
5. Slide the server into the rack.
6. Reconnect the power cords and all external cables, and turn on the server and peripheral devices.

Removing the EIA bracket

Use this information to remove the EIA bracket.

About this task

To remove the EIA bracket, complete the following steps:

Procedure

1. Read the safety information that begins on “Safety” on page vii and “Installation guidelines” on page 122.
2. If necessary, turn off the server and peripheral devices and disconnect the power cords and all external cables.
3. If the server has been installed in a rack, slide the server out from the rack enclosure.
4. Remove the screws from the EIA bracket.

Note: Use the T8 torx wedge to remove the screws.

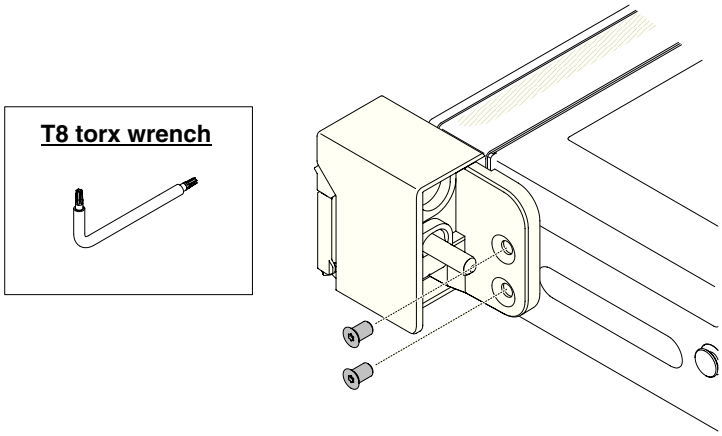


Figure 49. Screw removal

5. Slightly side the EIA bracket to the right; then, remove it from the chassis.

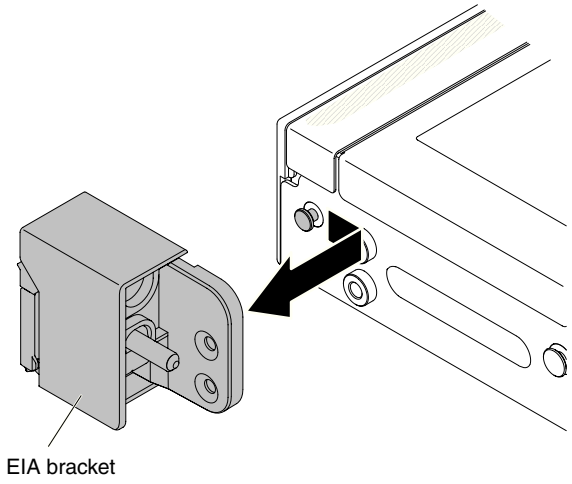


Figure 50. EIA bracket removal

Replacing the EIA bracket

Use this information to replace the EIA bracket.

About this task

To replace the EIA bracket, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Align the EIA bracket with the pin on the chassis; then, press the bracket onto the chassis and slightly slide it leftward.

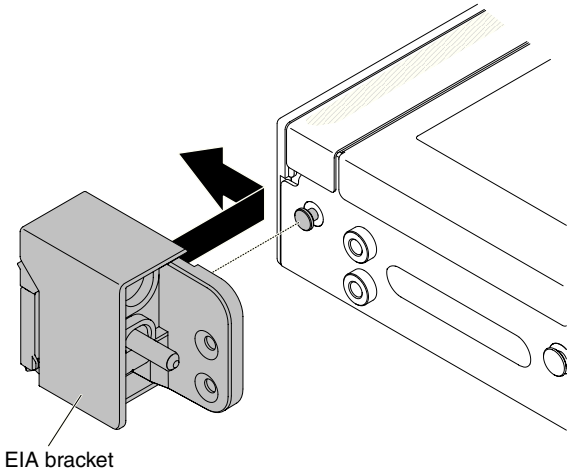


Figure 51. EIA bracket installation

3. Install the screws to secure the EIA bracket to the chassis.

   Note: Use the T8 torx wedge to install the screws.

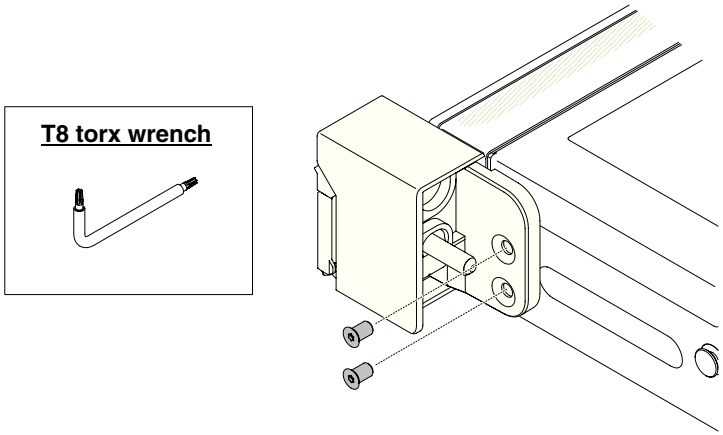


Figure 52. Screw installation

4. Slide the server back into the rack until it latches.
5. Reconnect the external cables and power cords, if necessary.

Removing and replacing Tier 1 CRUs

Replacement of Tier 1 CRUs is your responsibility. If IBM 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 hot-swap hard disk drives

Use this information to remove hot-swap hard disk drives.

About this task

Attention:

- To avoid damage to the hard disk drive connectors, make sure that the server cover is in place and fully closed whenever you install or remove a hard disk drive.
- To make sure that there is adequate system cooling, do not operate the server for more than 2 minutes without either a hard disk drive or a filler panel installed in each bay.
- Before you make changes to disk drives, disk drive controllers (including controllers that are integrated on the system board), disk drive backplanes, or disk drive cables, back up all important data that is stored on hard disks.
- Before you remove any component of a RAID array, back up all RAID configuration information.

To remove a hot-swap hard disk drive, complete the following steps.

Procedure

1. Read the safety information that begins on “Safety” on page vii and “Installation guidelines” on page 122.
2. Make sure you save the data on your drive, especially if it is part of a RAID array, before you remove it from the server.
3. Slide the release latch (orange) gently to the left to unlock the drive handle.

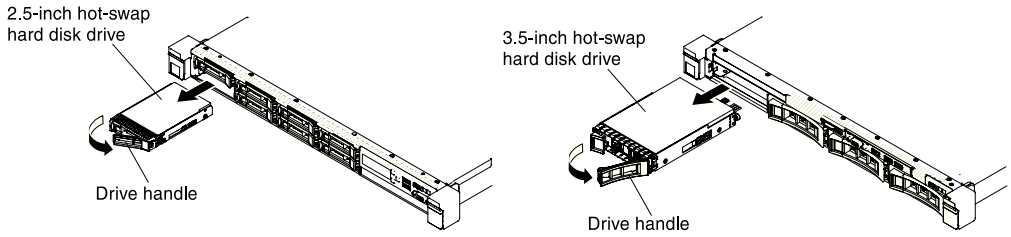


Figure 53. Hot-swap hard disk drives removal

4. Grasp the handle and slide the drive out of the drive bay.
5. Reinstall the drive bay filler panel.
6. If you are instructed to return the drive assembly, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing hot-swap hard disk drives

Use this information to replace hot-swap hard disk drives.

About this task

The following notes describe the type of hard disk drives that the server supports and other information that you must consider when you install a hard disk drive. For a list of supported hard disk drives, see http://www.ibm.com/systems/info/x86servers/serverproven/compat/us.

- Locate the documentation that comes with the hard disk drive and follow those instructions in addition to the instructions in this chapter.
- Make sure that you have all the cables and other equipment that are specified in the documentation that comes with the drive.
- Select the bay in which you want to install the drive.
- Check the instructions that come with the drive to determine whether you have to set any switches or jumpers on the drive. If you are installing a SAS or SATA hard disk drive, be sure to set the SAS or SATA ID for that device.
- The hot-swap server models support up to eight 2.5-inch or three 3.5-inch hot-swap SAS or SATA hard disk drives.
- The electromagnetic interference (EMI) integrity and cooling of the server are protected by having all bays and PCI and PCI Express slots covered or occupied. When you install a drive, PCI, or PCI Express adapter, save the EMC shield and filler panel from the bay or PCI or PCI Express adapter slot cover in the event that you later remove the device.
- For a complete list of supported optional devices for the server, see http://www.ibm.com/systems/info/x86servers/serverproven/compat/us.

To install a hot-swap SAS or SATA hard disk drive, complete the following steps:

Note: If you have only one hard disk drive, you must install it in the bay 0 (upper-left).

Procedure

1. Read the safety information that begins on “Safety” on page vii and “Installation guidelines” on page 122.
2. Remove the filler panel from the empty drive bay. Keep the filler panel in a safe place.
3. Touch the static-protective package that contains the drive to any unpainted metal surface on the server; then, remove the drive from the package and place it on a static-protective surface.
4. Install the hard disk drive in the drive bay:
   a. Make sure that the tray handle is in the open (unlocked) position.
   b. Align the drive with the guide rails in the bay.

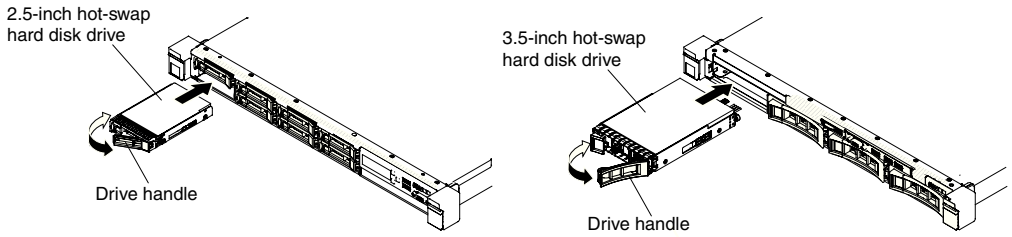


Figure 54. Hot-swap hard disk drive installation

c. Gently push the drive into the bay until the drive stops.
d. Rotate the tray handle to the closed (locked) position.
e. Check the hard disk drive status LED to verify that the hard disk drive is operating correctly. If the yellow hard disk drive status LED of a drive 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.

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

5. If you are installing additional hot-swap hard disk drives, do so now.
6. Turn on the peripheral devices and the server.

Results

Removing simple-swap hard disk drives

Use this information to remove simple-swap hard disk drives.

About this task

You must turn off the server before removing simple-swap drives from the server. To remove a simple-swap SATA hard disk drive, complete the following steps.

Attention:

- To avoid damage to the hard disk drive connectors, make sure that the server cover is in place and fully closed whenever you install or remove a hard disk drive.
- To make sure that there is adequate system cooling, do not operate the server for more than 2 minutes without either a hard disk drive or a filler panel installed in each bay.

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords and all external cables.
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.

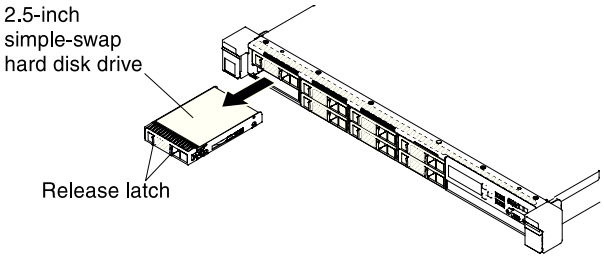


Figure 55. 2.5-inch simple-swap hard disk drive removal

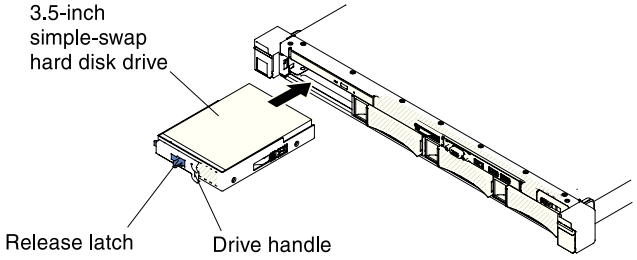


Figure 56. 3.5-inch simple-swap hard disk drive removal

4. Reinstall the drive bay filler panel that you removed earlier.
5. If you are instructed to return the drive assembly, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing simple-swap hard disk drives

Use this information to replace simple-swap hard disk drives.

About this task

You must turn off the server before installing simple-swap drives in the server. Before you install a simple-swap SATA hard disk drive, read the following information. For a list of supported hard disk drives, see http://www.ibm.com/systems/info/x86servers/serverproven/compat/us/.

- Locate the documentation that comes with the hard disk drive and follow those instructions in addition to the instructions in this chapter.
- Make sure that you have all the cables and other equipment that are specified in the documentation that comes with the drive.
- Select the bay in which you want to install the drive.
- Check the instructions that come with the drive to determine whether you have to set any switches or jumpers on the drive. If you are installing a SATA device, be sure to set the SATA ID for that device.
- You can install up to four 3.5-inch simple-swap SATA hard disk drives in the server. Do not install hot-swap drives into a simple-swap server model, it is not supported.
- You can install up to eight 2.5-inch simple-swap SATA hard disk drives in the server. Do not install hot-swap drives into a simple-swap server model, it is not supported.
- The simple-swap server models are available only in non-RAID configurations.

- The electromagnetic interference (EMI) integrity and cooling of the server are protected by having all bays and PCI and PCI Express slots covered or occupied. When you install a drive, PCI, or PCI Express adapter, save the EMC shield and filler panel from the bay or PCI or PCI Express adapter slot cover in the event that you later remove the device.

To install a simple-swap hard disk drive, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords and all external cables.
3. Remove the filler panel from the empty drive bay.
4. Touch the static-protective package that contains the drive to any unpainted metal surface on the server; then, remove the drive from the package and place it on a static-protective surface.
5. Install the hard disk drive in the drive bay:
   a. 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.

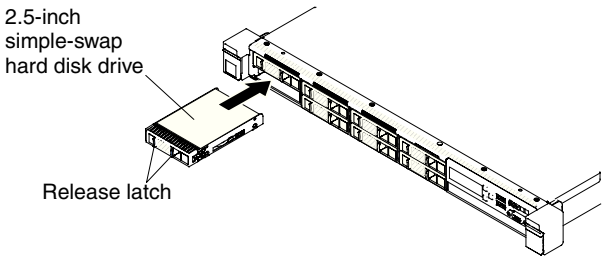


Figure 57. 2.5-inch simple-swap hard disk drive installation

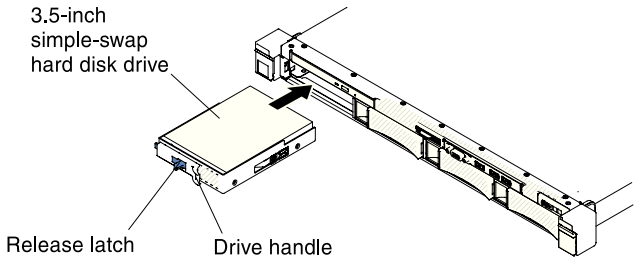


Figure 58. 3.5-inch simple-swap hard disk drive installation

   b. Gently push the drive into the bay until the drive stops.
6. Reinstall the drive bay filler panel that you removed earlier.
7. If you are installing additional simple-swap hard disk drives, do so now.
8. Turn on the peripheral devices and the server.

Removing the 2.5-inch hot-swap rear hard disk drive kit

Use this information to remove the 2.5-inch hot-swap rear hard disk drive kit.

About this task

To remove the 2.5-inch hot-swap rear hard disk drive kit, complete the following steps.

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords.
3. Remove the cover (see "Removing the cover" on page 126).
4. Disconnect the mini-SAS HD (12Gb) and power cables from the 2.5-inch hot-swap hard disk drive backplane and power connector.

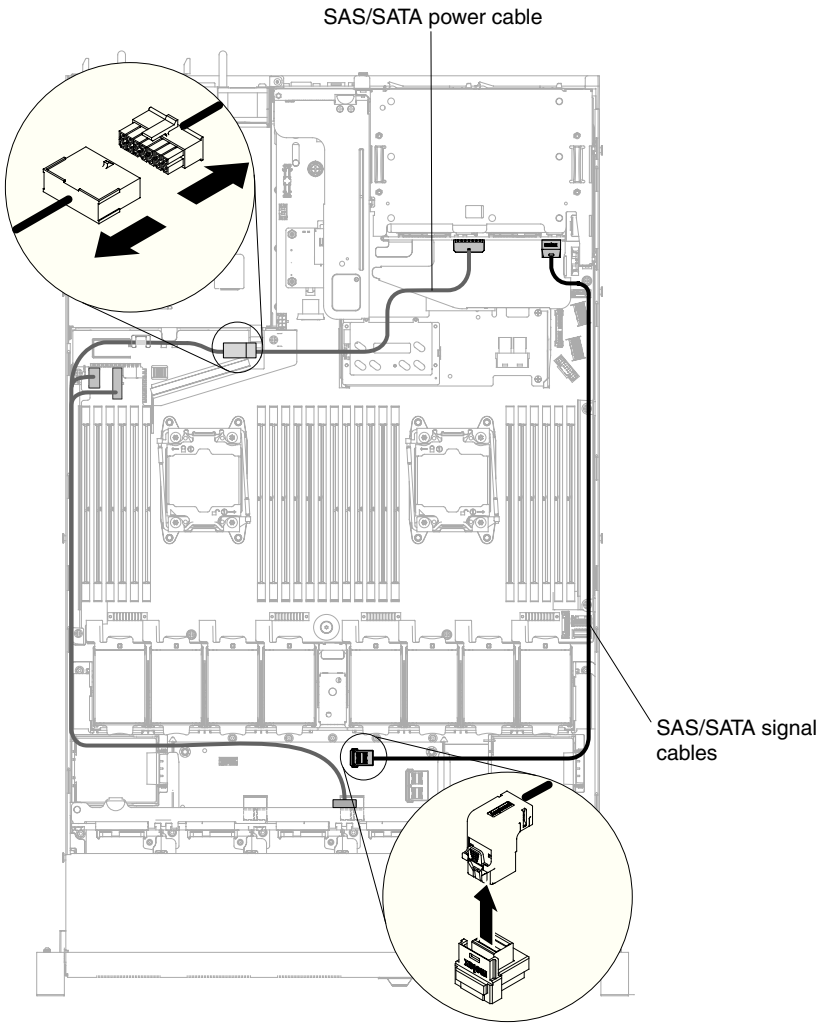


Figure 59. Mini-SAS HD (12Gb) and power cable disconnection

5. Lift the air duct and disconnect the mini-SAS HD (12Gb) and power cables from the rear hot-swap backplane.

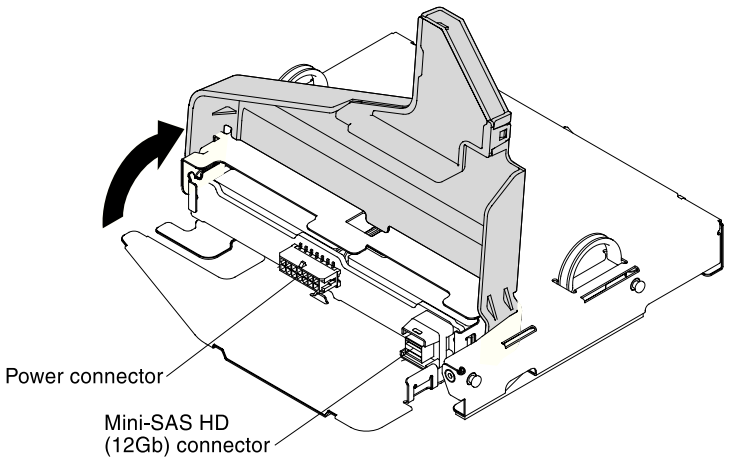


Figure 60. Mini-SAS HD (12Gb) and power cable connector location on backplane

6. Loosen the screw located at the rear of the chassis.

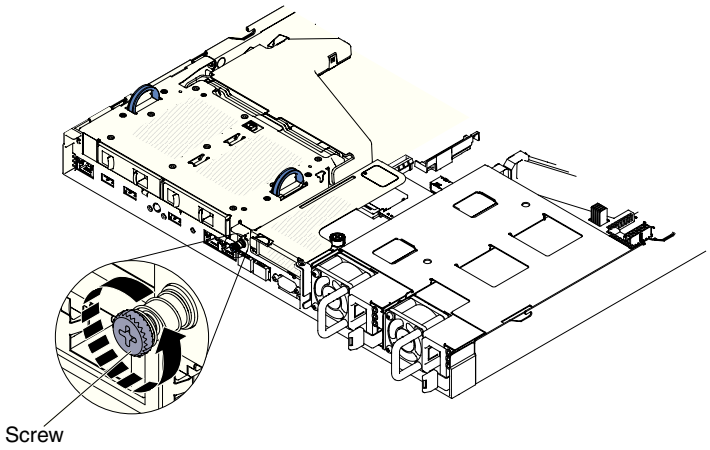


Figure 61. Screw location

7. Remove PCI riser-card assembly 3 first if it is installed on the system board (see "Removing a PCI riser-card assembly" on page 170). Afterwards, grasp the two handles located on the sides of the 2.5-inch hot-swap rear hard disk drive kit, and slowly lift it out of the chassis.

   Attention: Always follow the installation sequence in this step. Failure to do so, may result in damage to the 2.5-inch hot-swap rear hard disk drive kit.

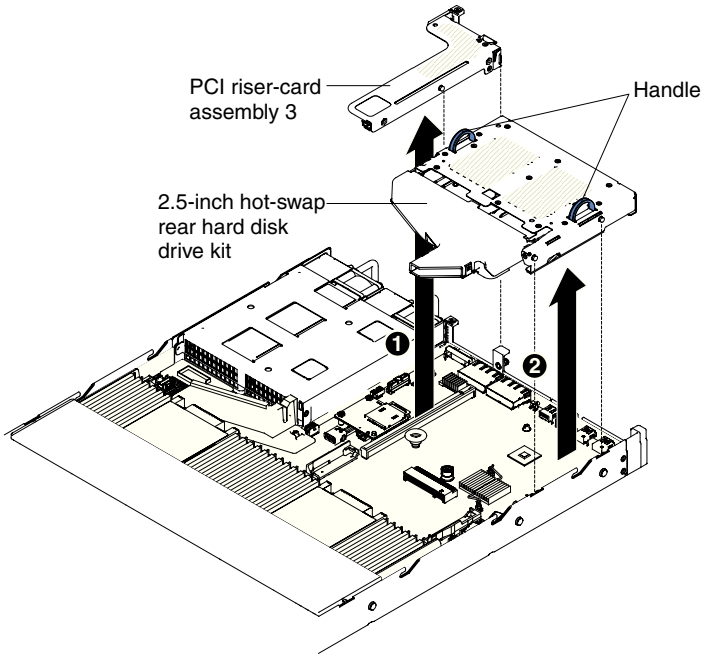


Figure 62. 2.5-inch hot-swap rear hard disk drive kit removal

8. If you are instructed to return the rear hard disk drive cage, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing the 2.5-inch hot-swap rear hard disk drive kit

Use this information to replace the 2.5-inch hot-swap rear hard disk drive kit.

About this task

To replace the 2.5-inch hot-swap rear hard disk drive kit, complete the following steps.

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords.
3. Remove the cover (see "Removing the cover" on page 126).
4. If PCI riser-card assembly 3 needs to be installed (see "Replacing a PCI riser-card assembly" on page 172), remember to first install the 2.5-inch hot-swap rear hard disk drive kit. Install the kit by grasping the two handles located on the sides of the kit, and slowly lower it into the chassis. Make sure the two alignment pins securely engages the two holes on the side of the chassis.

   Attention: Always follow the installation sequence in this step. Failure to do so, may result in damage to the 2.5-inch hot-swap rear hard disk drive kit.

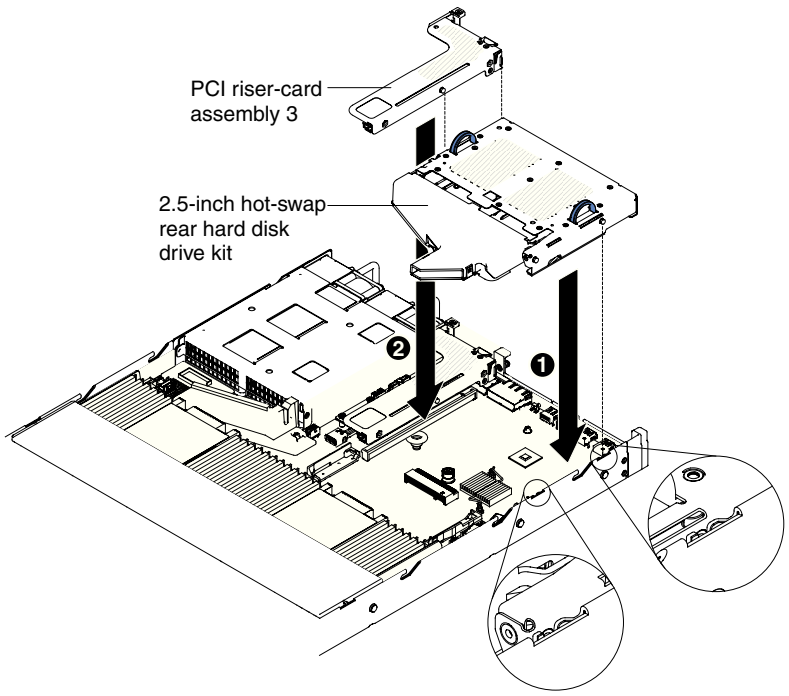


Figure 63. 2.5-inch hot-swap rear hard disk drive kit installation

5. Tighten the screw to secure the rear hard disk drive kit to the chassis.

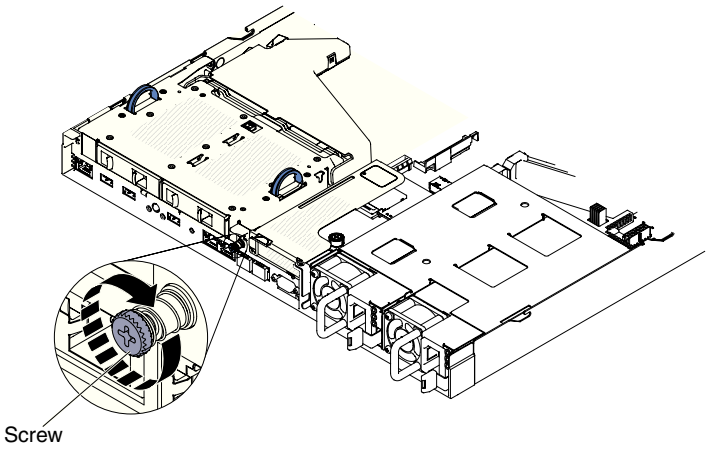


Figure 64. Screw location

6. Lift the air duct and connect the mini-SAS HD (12Gb) and power cables to the rear hot-swap backplane.

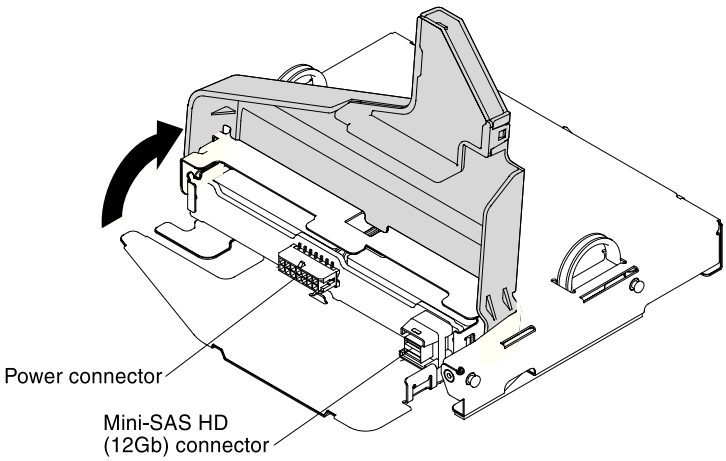


Figure 65. Mini-SAS HD (12Gb) and power cable connector location on the rear backplane

7. Connect the other end of the mini-SAS HD (12Gb) and power cables to the 2.5-inch hot-swap hard disk drive backplane and power connector.

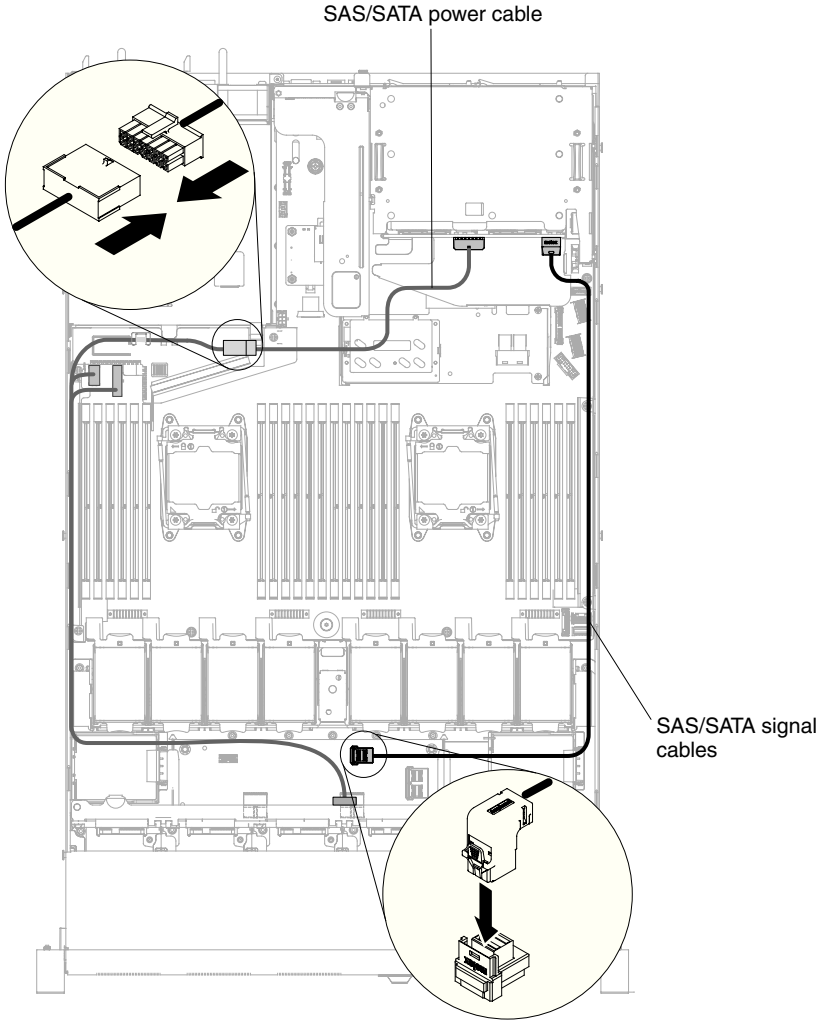


Figure 66. Mini-SAS HD (12Gb) and power cable routing

8. Reinstall the cover (see "Replacing the cover" on page 127).

9. Slide the server into the rack.
10. Reconnect the power cords and any cables that you removed.
11. Turn on the peripheral devices and the server.

Removing the DVD drive

Use this information to remove the DVD drive.

About this task

To remove a DVD drive, complete the following steps:

Note: The DVD drive is supported on the ten 2.5-inch hot-swap or simple-swap hard disk drive model.

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect all power cords.
3. Remove the server cover (see "Removing the cover" on page 126).
4. Press and hold the release tab down as you push the drive from the rear to slide it out of the bay.

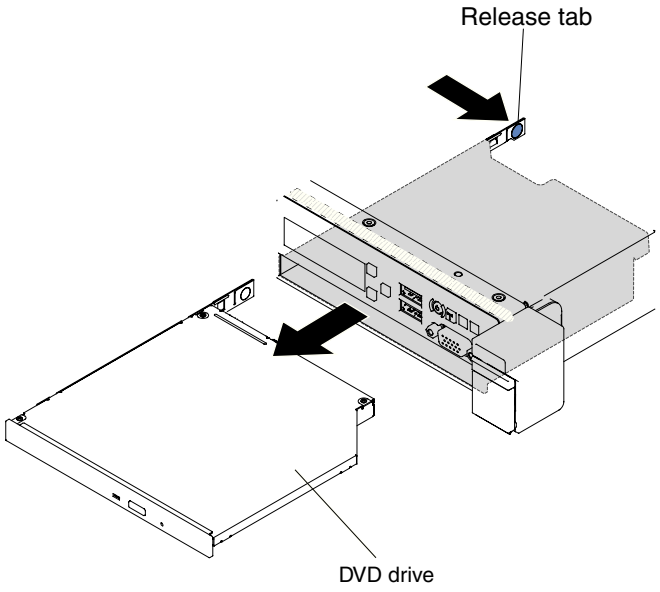


Figure 67. DVD drive removal for 2.5-inch hard disk drive server models

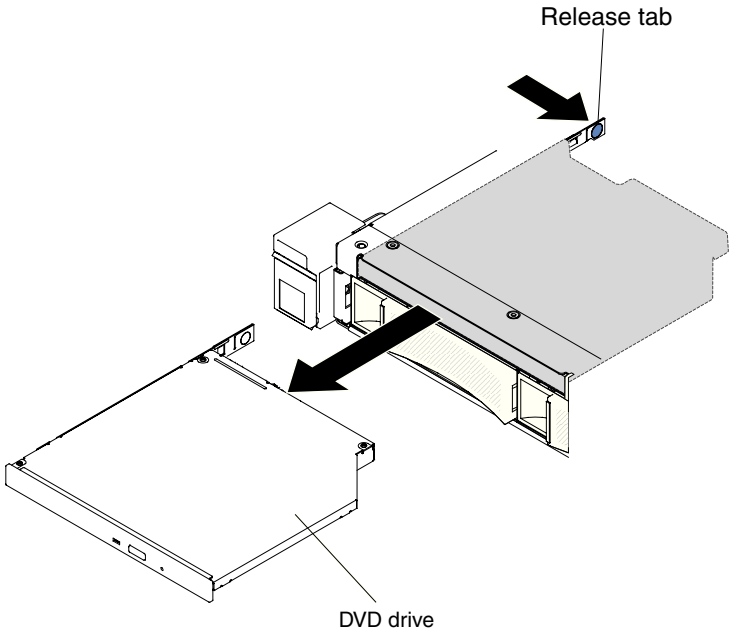


Figure 68. DVD drive removal for 3.5-inch hard disk drive server models

5. Slide the drive retention clip from the side of the drive. Save the clip to use when you install the replacement drive or replace the DVD drive filler panel.

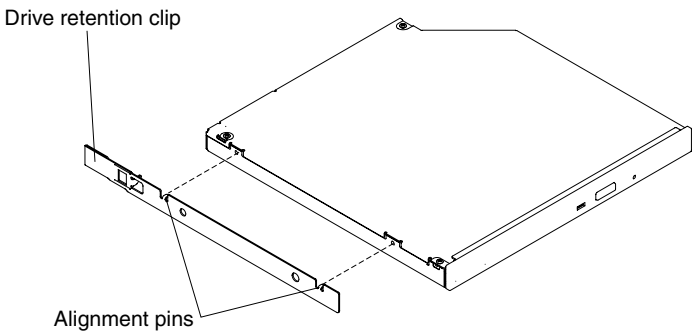


Figure 69. DVD drive retention clip removal

6. Attach the drive retention clip to the side of the DVD drive filler panel that you removed in step 4 on page 156.
7. Slide the DVD drive filler panel into the DVD drive bay until the DVD drive filler panel clicks into place.

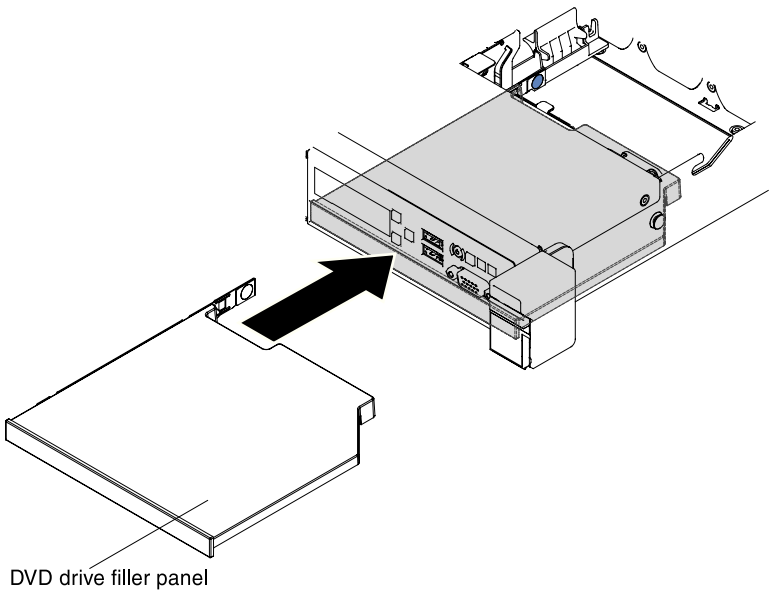


Figure 70. DVD drive filler panel installation for 2.5-inch hard disk drive server models

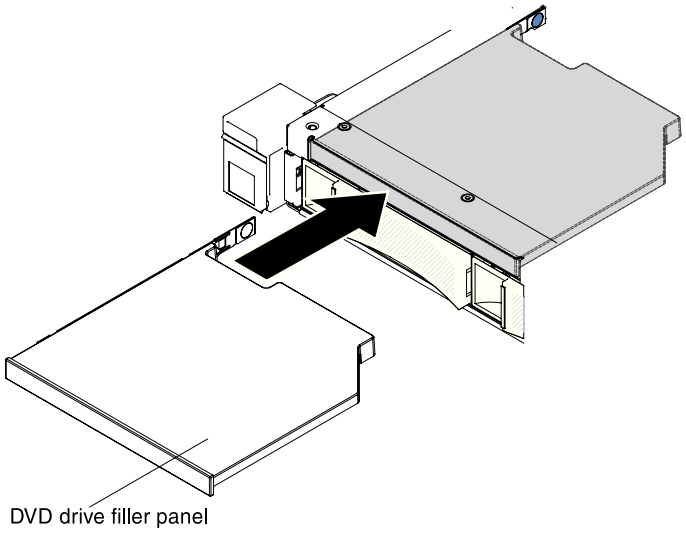


Figure 71. DVD drive filler panel installation for 3.5-inch hard disk drive server models

8. If you are instructed to return the DVD drive, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing the DVD drive

Use this information to replace the DVD drive.

About this task

The following notes describe the type of drives that the server supports and other information that you must consider when you install a drive. For a list of supported drives, see http://www.ibm.com/systems/info/x86servers/serverproven/compat/us.

- Locate the documentation that comes with the drive and follow those instructions in addition to the instructions in this chapter.
- Make sure that you have all the cables and other equipment that are specified in the documentation that comes with the drive.
- The server supports one ultra-slim SATA DVD drive.

To install a DVD drive, complete the following steps:

Note: The DVD drive is supported on the ten 2.5-inch hot-swap or simple-swap hard disk drive model.

Procedure

1. Read the safety information that begins on “Safety” on page vii and “Installation guidelines” on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords and all external cables.

   Note: When you disconnect the power source from the server, you lose the ability to view the LEDs because the LEDs are not lit when the power source is removed. Before you disconnect the power source, make a note of which LEDs are lit, including the LEDs that are lit on the operation information panel and LEDs inside the server on the system board.
3. Remove the cover (see “Removing the cover” on page 126).
4. Remove the DVD drive filler panel if it is installed. Locate the blue release tab on the rear of the DVD drive filler panel; then, while you press the tab, push the DVD drive filler panel out of the drive bay.

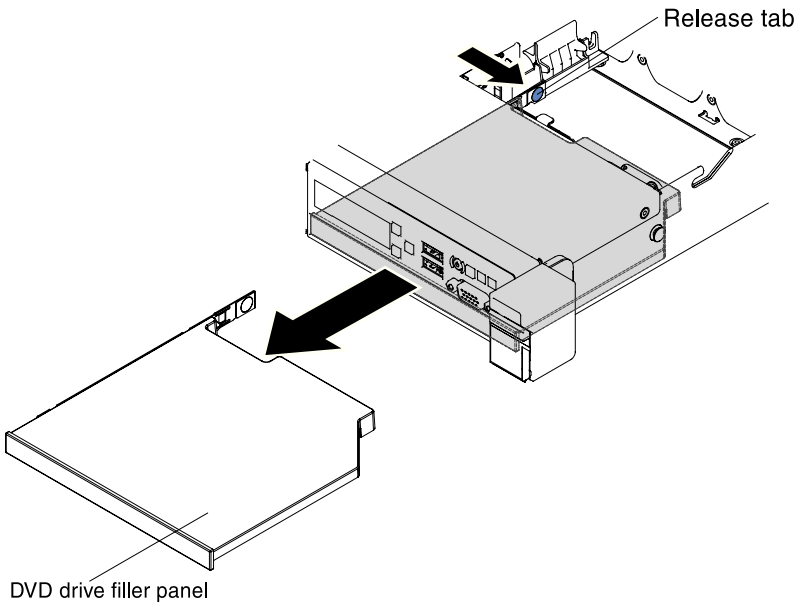


Figure 72. DVD drive filler panel removal for 2.5-inch hard disk drive server models

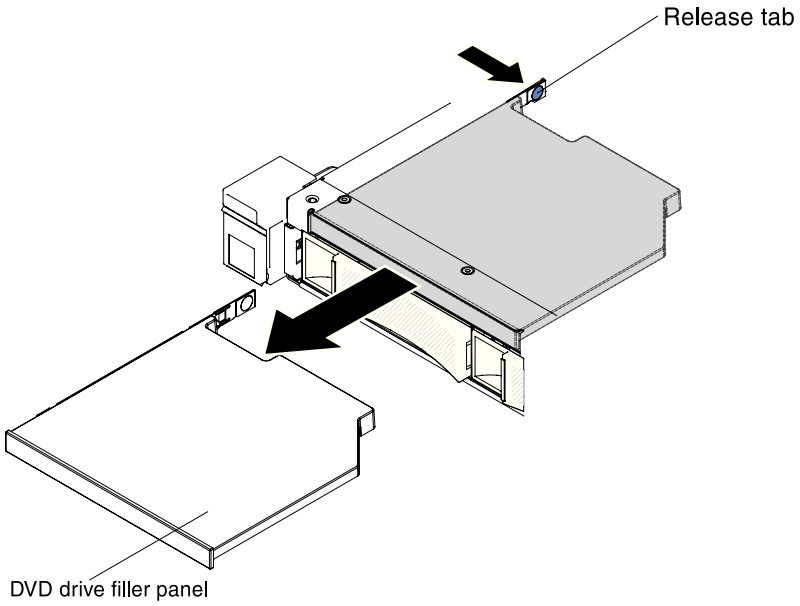


Figure 73. DVD drive filler panel removal for 3.5-inch hard disk drive server models

5. Remove the retention clip from the side of the DVD drive filler panel. Save the DVD drive filler panel for future use.

   Note: If you are installing an DVD 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 DVD 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

6. Touch the static-protective package that contains the new DVD drive to any unpainted metal surface on the server; then, remove the DVD drive from the package and place it on a static-protective surface.
7. Follow the instructions that come with the drive to set any jumpers or switches.
8. Attach the drive retention clip that you removed from the DVD drive filler panel to the side of the new DVD drive.

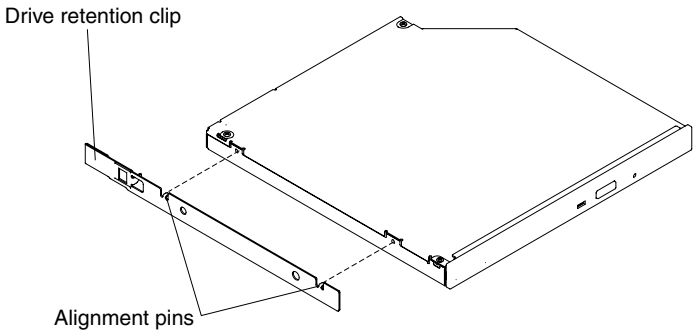


Figure 74. DVD drive retention clip installation

9. Align the DVD drive in the drive bay and slide the DVD drive into the DVD drive bay until the DVD drive clicks into place.

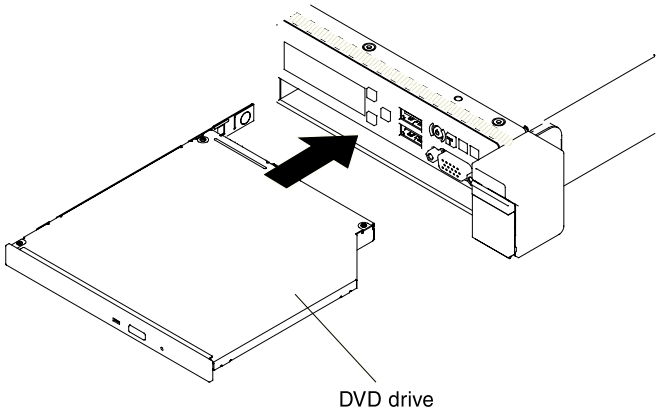


Figure 75. DVD drive installation for 2.5-inch hard disk drive server models

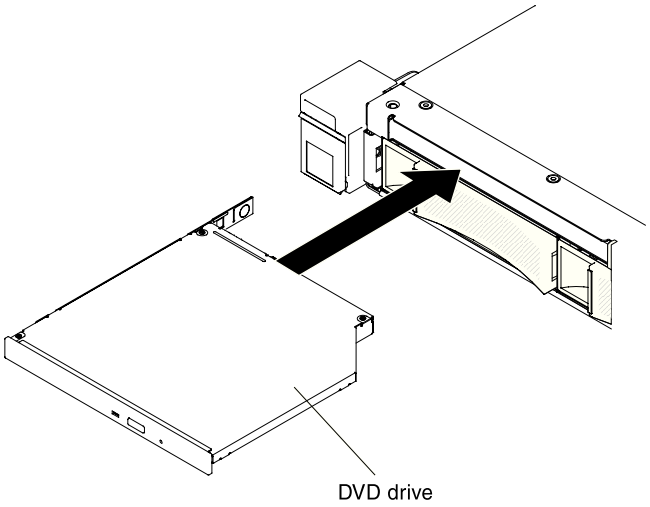


Figure 76. DVD drive installation for 3.5-inch hard disk drive server models

10. Reconnect the power cords and any cables that you removed.
11. Turn on the peripheral devices and the server.

Removing the DVD drive cable

Use this information to remove the DVD drive cable.

About this task

To remove the DVD cable, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords.
3. Remove the cover (see "Removing the cover" on page 126).
4. Remove the air baffle (see "Removing the air baffle" on page 129).
5. Press and hold the connector release tab; then, remove the DVD drive cable from the connector on the system board.

Attention: You must press the connector release tab in order to disconnect the DVD drive cable from the system board. Do not disconnect the DVD drive cable by using excessive force.

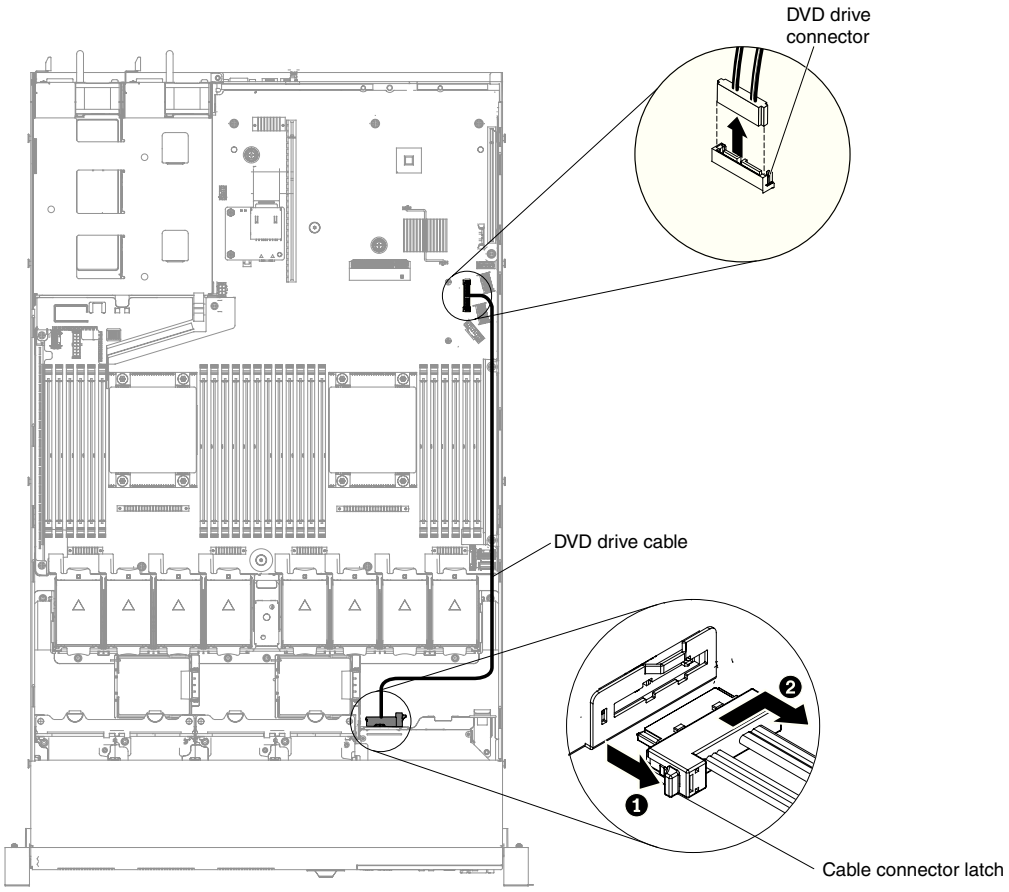


Figure 77. DVD drive cable removal for 2.5-inch hard disk drive server models

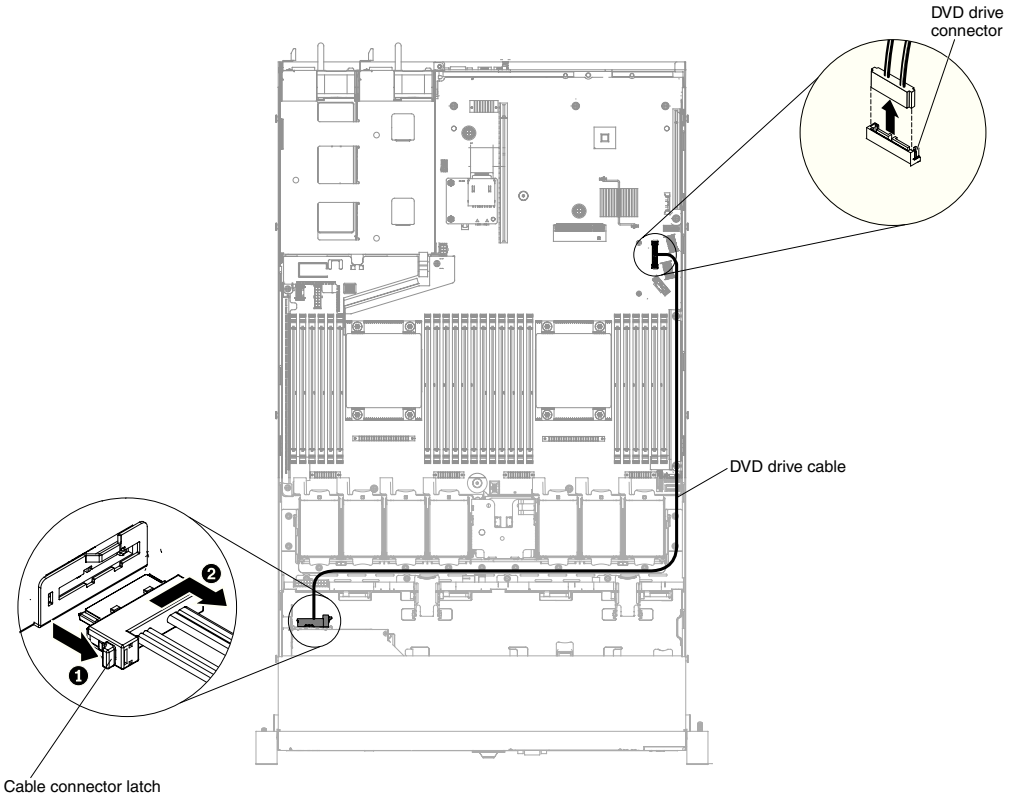


Figure 78. DVD drive cable removal for 3.5-inch hard disk drive server models

6. Slide the DVD drive out of the server (see "Removing the DVD drive" on page 153).
7. From the rear of the DVD drive cage, press and hold the connector latch (on the left of the cable connector) and grasp the cable connector and slide it to the right; then, remove the DVD drive cable from the connector on the back of the DVD drive and set it aside.

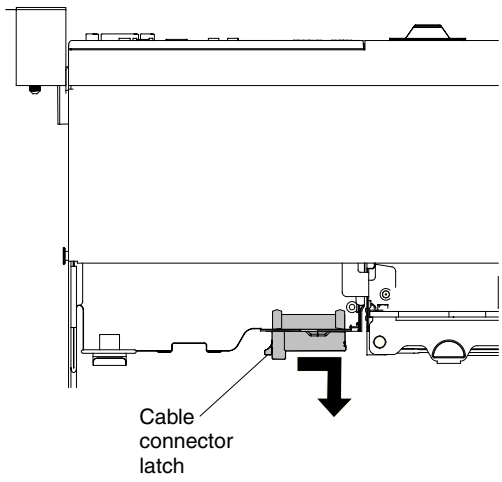


Figure 79. DVD drive cable latch

Results

If you are instructed to return the DVD drive cable, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing the DVD drive cable

Use this information to replace the DVD drive cable.

About this task

To install the DVD drive cable, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords and all external cables.
3. Remove the cover (see "Removing the cover" on page 126).
4. Remove the air baffle (see "Removing the air baffle" on page 129).
5. Align the cable connector with the connector on the rear of the DVD drive cage. Press the cable connector into the DVD drive cage connector and slide it to the left until it is firmly seated.

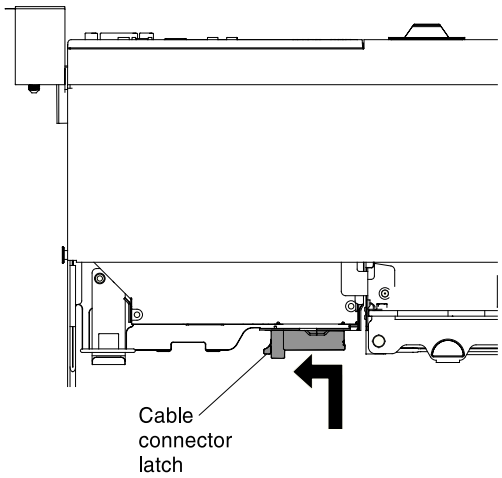


Figure 80. DVD drive cable latch

The following illustration shows cable routing for the DVD cable:

Attention: Follow the DVD drive cable routing as the illustration shows. Make sure that the cable is not pinched and does not cover any connectors or obstruct any components on the system board.

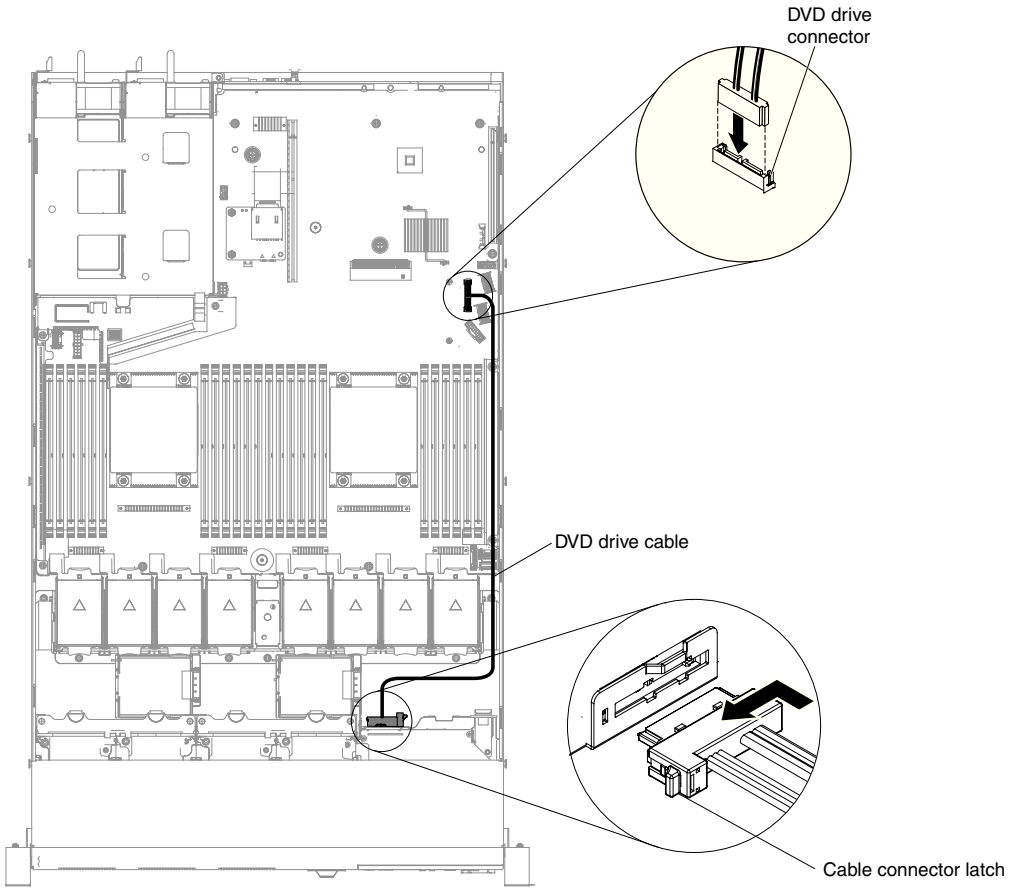


Figure 81. DVD drive cable routing for 2.5-inch hard disk drive server models

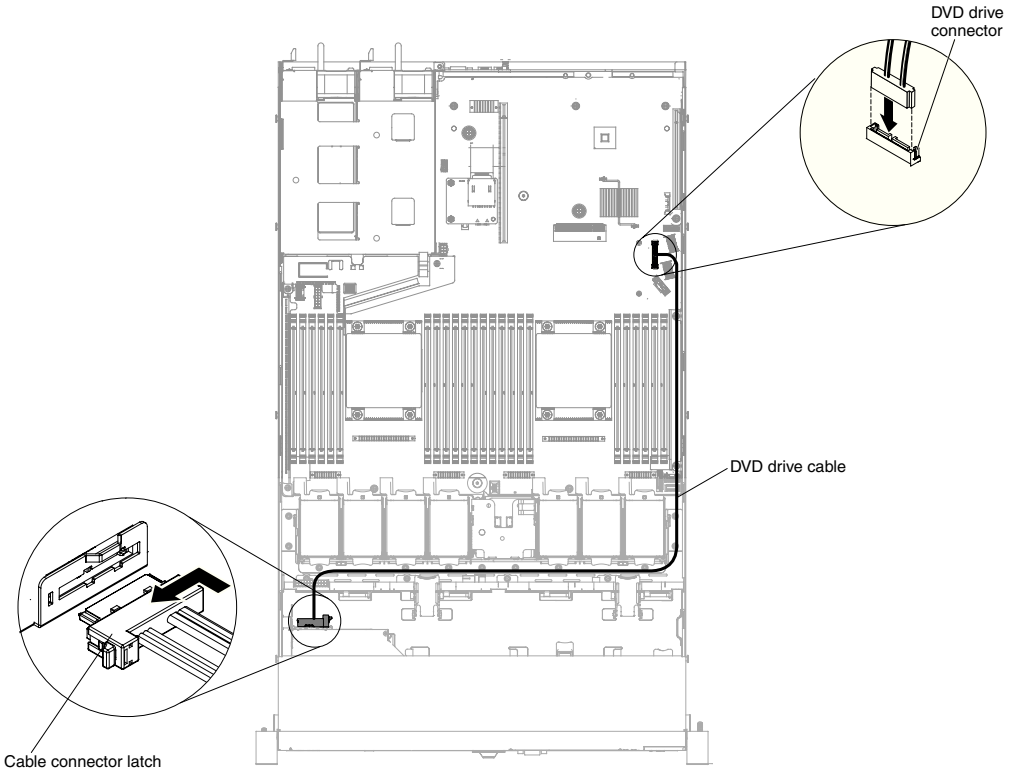


Figure 82. DVD drive cable routing for 3.5-inch hard disk drive server models

6. Replace the air baffle (see "Replacing the air baffle" on page 129).
7. Reinstall the cover (see "Replacing the cover" on page 127).
8. Slide the server into the rack.
9. Reconnect the power cords and any cables that you removed.
10. Turn on the peripheral devices and the server.

Removing a memory module

Use this information to remove a memory module.

About this task

To remove a dual inline memory module (DIMM), complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect all power cords.
3. Remove the cover (see "Removing the cover" on page 126).
4. Remove the air baffle (see "Removing the air baffle" on page 129).
5. Carefully open the retaining clips on each end of the DIMM connector and remove the DIMM.

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

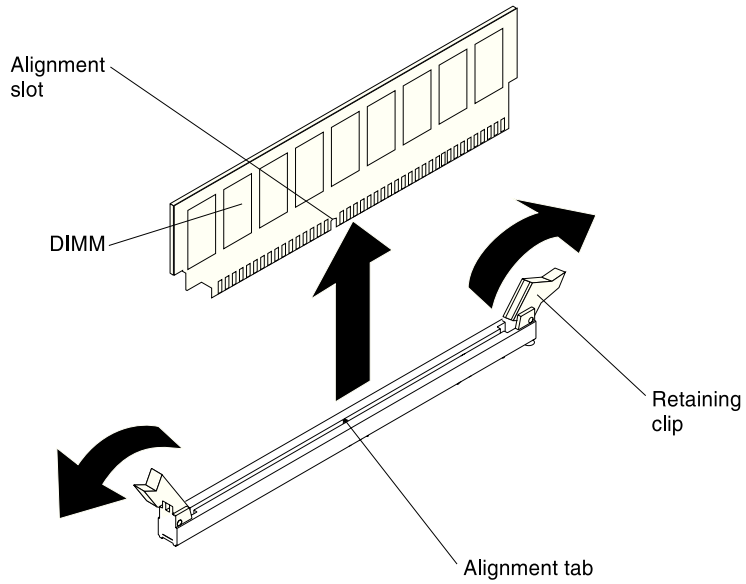


Figure 83. DIMM removal

Results

If you are instructed to return the DIMM, 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 4 (DDR4), 1600, 1866, or 2133 MHz, PC4-12800, PC4-14900, or PC4-17000 registered or load deduction, synchronous dynamic random-access memory (SDRAM) dual inline memory modules (DIMMs) with error correcting code (ECC). See http://www.ibm.com/systems/info/x86servers/serverproven/compat/us for a list of supported memory modules for the server.
  - The specifications of a DDR4 DIMM are on a label on the DIMM, in the following format.

    ggggg eRxff PC3*v-wwwwwm-aa-bb-ccd*

    where:

    - *ggggg* is the total capacity of the DIMM (for example, 1 GB, 2 GB, or 4 GB)
    - *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 = 1.2 V specified

- *wwwww* is the DIMM bandwidth, in MBps

  12800 = 12.80 GBps (DDR4-1600 SDRAMs, 8-byte primary data bus)

  14900 = 14.93 GBps (DDR4-1866 SDRAMs, 8-byte primary data bus)

  17000 = 17.00 GBps (DDR4-2133 SDRAMs, 8-byte primary data bus)

- *m* is the DIMM type

  L = Load Reduction DIMM (LRDIMM)

  R = Registered DIMM (RDIMM)

- *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 *n*Rxxx 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 DDR4 RDIMM speed as it relates to the number of RDIMMs in a channel:
  - When you install 1 RDIMM per channel, the memory runs at 1600 MHz
  - When you install 2 RDIMMs per channel, the memory runs at 1860 MHz
  - When you install 3 RDIMMs per channel, the memory runs at 2133 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, the server 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-ranl, or quad-rank 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 RDIMMs or LRDIMMs will function at 1.5 V.
- The server supports a maximum of 24 single-rank, dual-rank RDIMMs or 24 quad-rank LRIMMs.
- The following table shows an example of the maximum amount of memory that you can install using ranked DIMMs or load-reduced DIMMs:

Table 24. Maximum memory installation

Number of DIMMs	DIMM type	Size	Total memory
24	Single-rank RDIMM	4 GB	96 GB
24	Dual-rank RDIMM	8 GB	192 GB
24	Dual-rank RDIMM	16 GB	384 GB
16	Quad-rank LRDIMM	32 GB	768 GB
24	Quad-rank LRDIMM	64 GB	1536 GB

- The RDIMM options that are available for the server are 4 GB, 8 GB, and 16 GB. The server supports a minimum of 4 GB and a maximum of 384 GB of system memory using RDIMMs.
- The LRDIMM option that is available for the server is 32 GB and 64 GB. The server supports a minimum of 32 GB and a maximum of 1536 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 36.
- 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 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.

Notes:

1. 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.
2. DIMM slots 13-24 are reserved for microprocessor 2; thus, DIMM slots 13-24 are enabled when microprocessor 2 is installed.

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

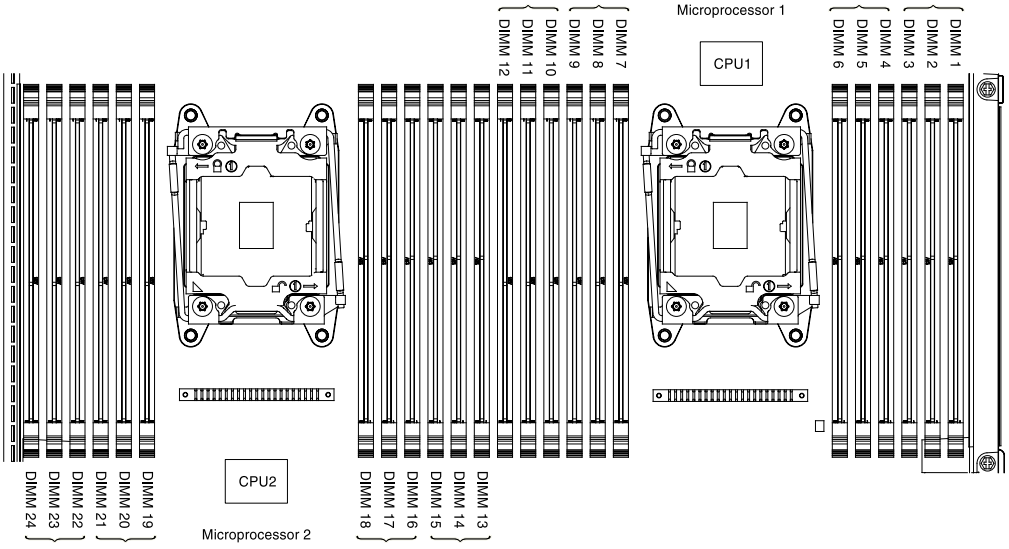


Figure 84. DIMM connectors location

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 25. Normal mode DIMM installation sequence

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

Replacing a memory module

Use this information to replace a memory module.

About this task

To install a memory module, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords and all external cables, if necessary.
3. Remove the cover (see "Removing the cover" on page 126).
4. Remove the air baffle (see "Removing the air baffle" on page 129).
5. 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.
6. Carefully open the retaining clips on each end of the DIMM connector

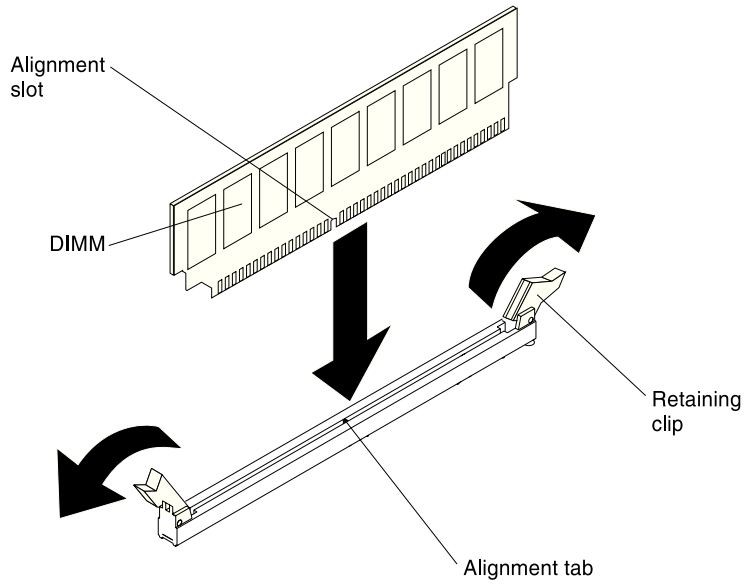


Figure 85. DIMM installation

7. Turn the DIMM so that the alignment slot align correctly with the alignment tab.
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).
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.
10. Reconnect the power cords and any cables that you removed.
11. Replace the air baffle (see "Replacing the air baffle" on page 129).

    Note: Close all the retaining clips even for slots without DIMMs installed before replacing the air baffle.
12. Reinstall the cover (see "Replacing the cover" on page 127).
13. Turn on the peripheral devices and the server.

Removing a PCI riser-card assembly

Use this information to remove a PCI riser-card assembly.

About this task

Note: PCI riser-card brackets must be installed even if you do not install an adapter.

To remove a PCI riser-card assembly, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords and all external cables.
3. Remove the cover (see "Removing the cover" on page 126).
4. If an adapter is installed in the PCI riser-card assembly, disconnect any cables that are connected to the adapter.
5. Grasp both ends or the handle of the PCI riser-card assembly and lift it out of the PCI riser-card slot on the system board. The following illustrations show the different PCI riser-card assembly configurations that could be present in the server.

   Note: When the 2.5-inch hot-swap rear hard disk drive kit is used, only the PCI riser-card assembly with one x8 or x16 low-profile slot can be used for connector 2 on the system board.

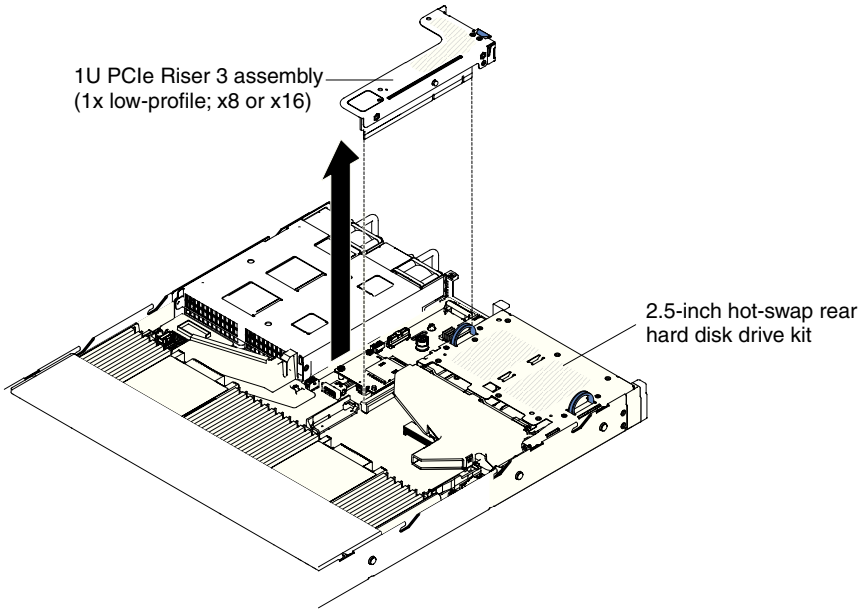


Figure 86. PCI riser-card assembly removal (1)

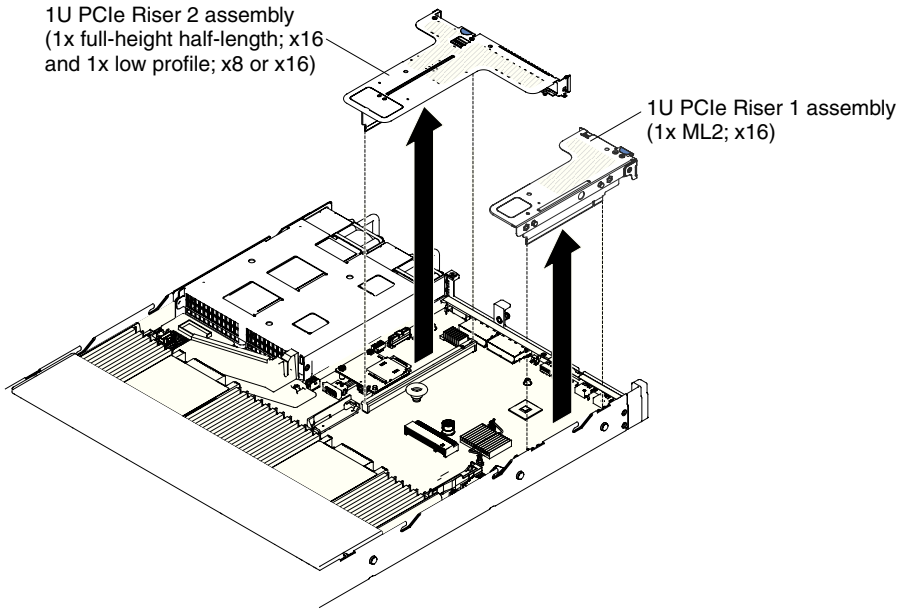


Figure 87. PCI riser-card assembly removal (2)

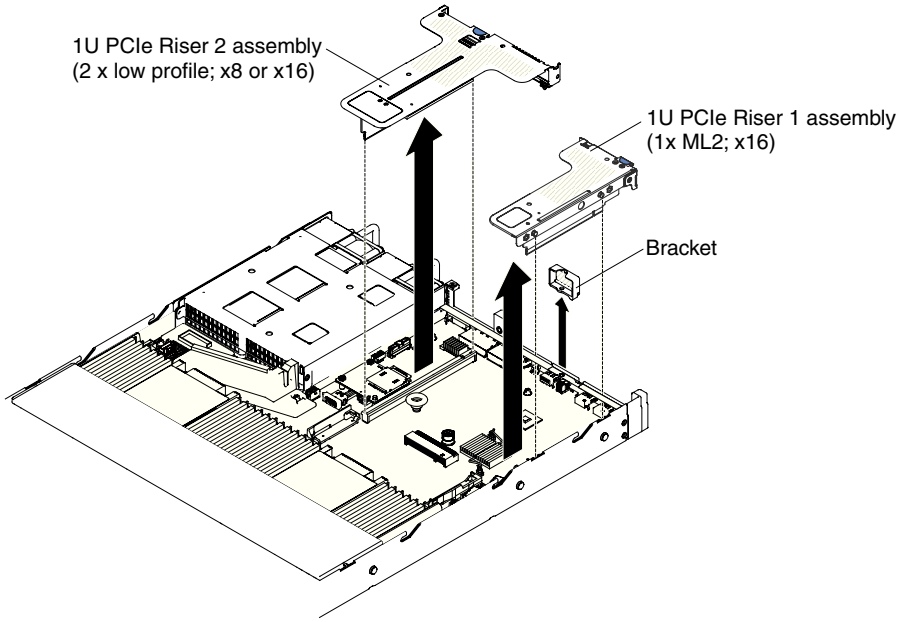


Figure 88. PCI riser-card assembly removal (3)

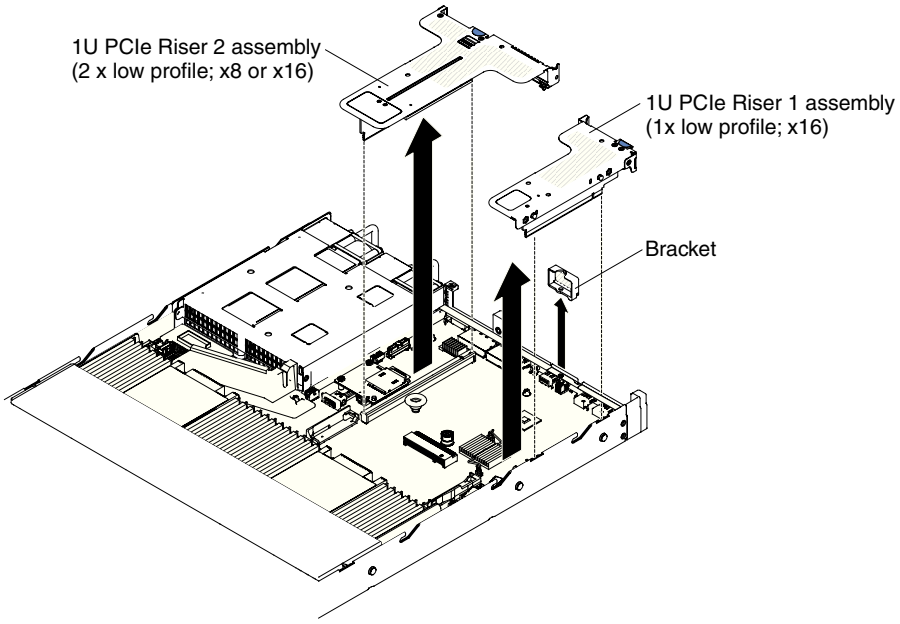


Figure 89. PCI riser-card assembly removal (4)

6. Remove the adapter, if one is present, from the PCI riser-card assembly (see "Removing an adapter" on page 177).
7. Set the adapter and the PCI riser-card assembly aside.

Results

If you are instructed to return the PCI riser-card assembly, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing a PCI riser-card assembly

Use this information to replace a PCI riser-card assembly.

About this task

Note: PCI riser-card brackets must be installed even if you do not install an adapter.

The following table lists the supported PCI riser-card assembly configurations in the server.

Table 26. Configuration 1

Configuration 1				
Configuration	**Number of microprocessors installed**	**PCI riser-card assembly connector 1 on system board**	**PCI riser-card assembly connector 2 on system board**	
		Slot 1	**Slot 2**	**Slot 3**
• Three low-profile slots	One	x1/x4/x8/x16 low-profile	x1/x4/x8 low-profile	x1/x4/x8 low-profile

Table 27. Configuration 2

Configuration 2				
Configuration	**Number of microprocessors installed**	**PCI riser-card assembly connector 1 on system board**	**PCI riser-card assembly connector 2 on system board**	
		Slot 1	**Slot 2**	**Slot 3**
• Three low-profile slots	One or two	x1/x4/x8/x16 low-profile	x1/x4/x8/x16 low-profile **Note:** If only one microprocessor is installed, slot 2 cannot be used	x1/x4/x8/x16 low-profile

Table 28. Configuration 3.
Note: Slot 1 is for 60mm ML2 adapter

Configuration 3				
Configuration	**Number of microprocessors installed**	**PCI riser-card assembly connector 1 on system board**	**PCI riser-card assembly connector 2 on system board**	
		Slot 1	**Slot 2**	**Slot 3**
• One ML2 slot • One full-height, half-length slot • One low-profile slot	One	ML2	x1/x4/x8 full-height, half-length	x1/x4/x8 low-profile

Table 29. Configuration 4.
Note: Slot 1 is for 60mm ML2 adapter

Configuration 4				
Configuration	**Number of microprocessors installed**	**PCI riser-card assembly connector 1 on system board**	**PCI riser-card assembly connector 2 on system board**	
		Slot 1	**Slot 2**	**Slot 3**
• One ML2 slot • One half-length, full-height slot • One low-profile slot	One or two	ML2	x1/x4/x8/x16 full-height, half-length **Note:** If only one microprocessor is installed, slot 2 cannot be used	x1/x4/x8/x16 low-profile

Table 30. Configuration 5.

Note: Slot 1 is for standard low-profile ML2 adapter

Configuration 5				
Configuration	**Number of microprocessors installed**	**PCI riser-card assembly connector 1 on system board**	**PCI riser-card assembly connector 2 on system board**	
		Slot 1	**Slot 2**	**Slot 3**
• One ML2 slot • Two low-profile slots	One	ML2	x1/x4/x8 low-profile	x1/x4/x8 low-profile

Table 31. Configuration 6.

Note: Slot 1 is for standard low-profile ML2 adapter

Configuration 6				
Configuration	**Number of microprocessors installed**	**PCI riser-card assembly connector 1 on system board**	**PCI riser-card assembly connector 2 on system board**	
		Slot 1	**Slot 2**	**Slot 3**
• One ML2 slot • Two low-profile slots	One or two	ML2	x1/x4/x8/x16 low-profile **Note:** If only one microprocessor is installed, slot 2 cannot be used	x1/x4/x8/x16 low-profile

Table 32. Configuration 7

Configuration 7				
Configuration	**Number of microprocessors installed**	**PCI riser-card assembly connector 1 on system board**	**PCI riser-card assembly connector 2 on system board**	
		Slot 1	**Slot 2**	**Slot 3**
• One 2.5-inch hot-swap rear hard disk drive kit • One low-profile slot	One or two	X	X	x1/x4/x8/x16 low-profile

To install a PCI riser-card assembly, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect all power cords.

3. Remove the cover (see “Removing the cover” on page 126).
4. Install the adapter in the new PCI riser-card assembly (see “Replacing an adapter” on page 180).
5. Set any jumpers or switches on the adapter as directed by the adapter manufacturer.
6. Remove the PCI filler panel, if one is present, from the rear of the server.
7. Align the PCI riser-card assembly with the PCI riser connector on the system board; then, press down firmly until the PCI riser-card assembly is seated correctly in the connector on the system board.

   Note: When the 2.5-inch hot-swap rear hard disk drive kit is used, only the PCI riser-card assembly with one x8 or x16 low-profile slot can be used for connector 2 on the system board.

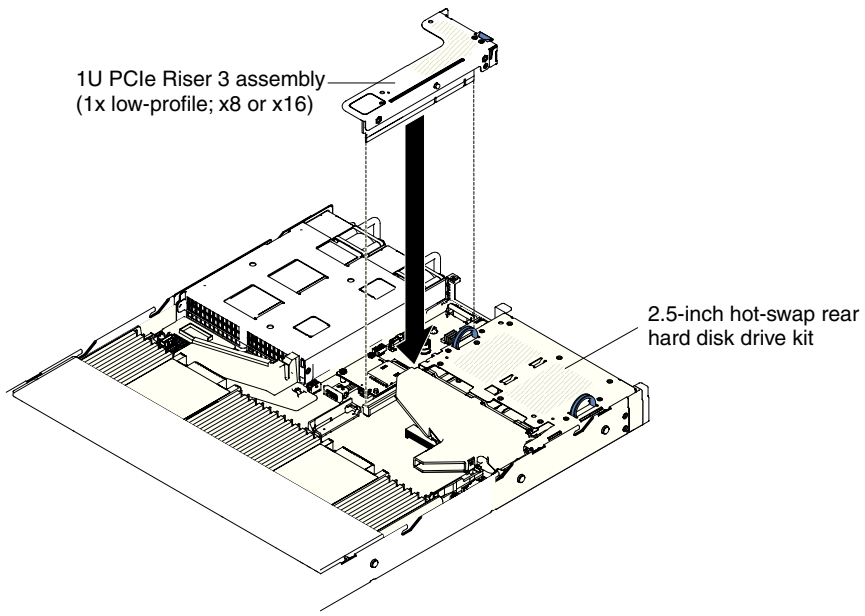


Figure 90. PCI riser-card assembly installation (1)

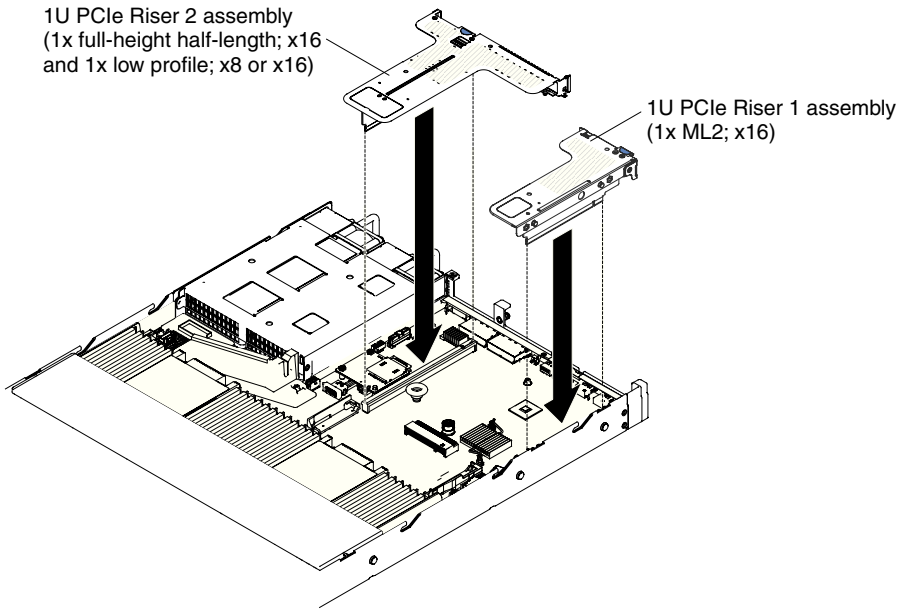


Figure 91. PCI riser-card assembly installation (2)

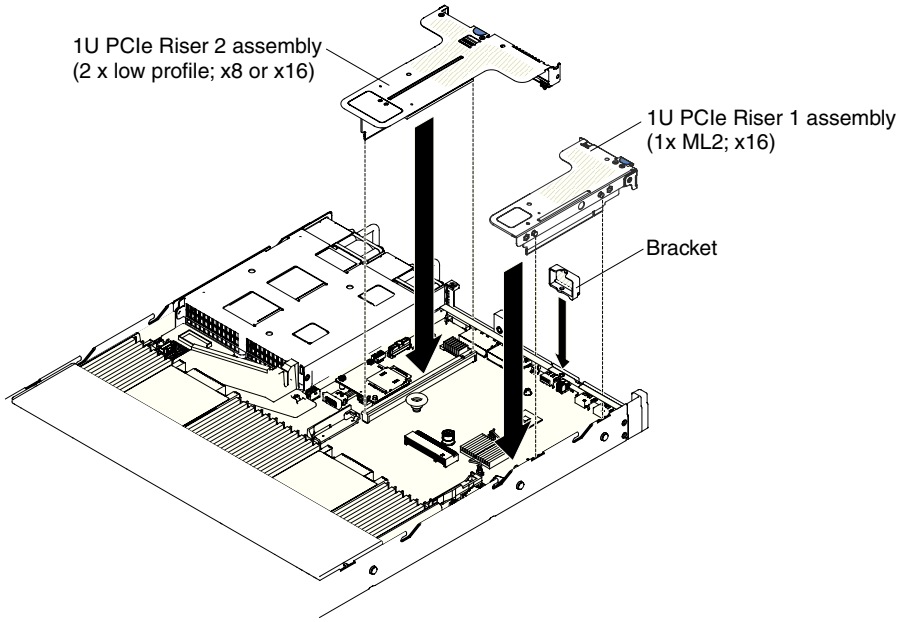


Figure 92. PCI riser-card assembly installation (3)

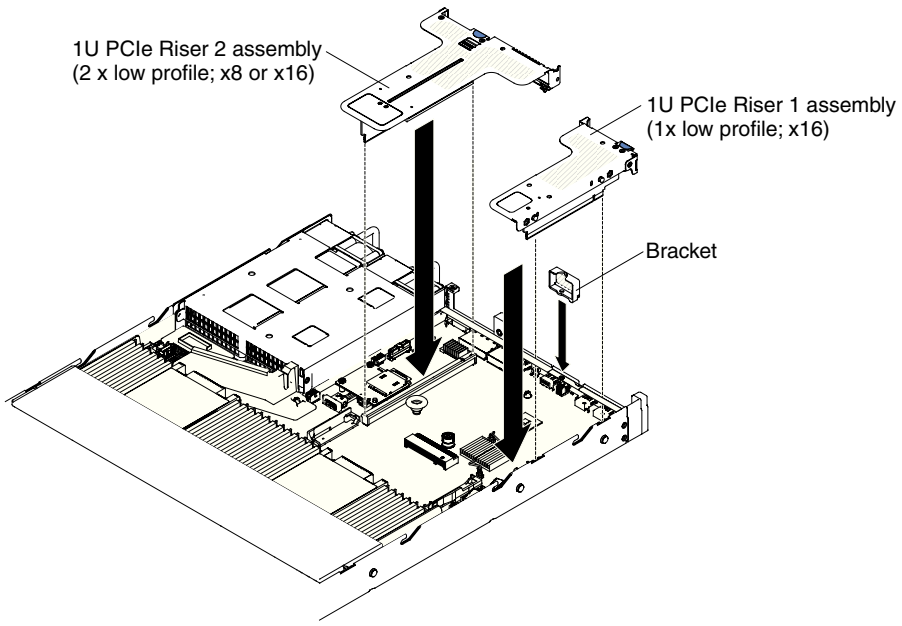


Figure 93. PCI riser-card assembly installation (4)

8. Reinstall the cover (see "Replacing the cover" on page 127).
9. Slide the server into the rack.
10. Reconnect the power cords and any cables that you removed.
11. Turn on the peripheral devices and the server.

Removing an adapter

Use this information to remove an adapter.

About this task

To remove an adapter, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect all power cords; then, remove the cover (see "Removing the cover" on page 126).
3. Disconnect any cables from the adapter.
4. Grasp the PCI riser-card assembly at the blue tabs and lift to remove the PCI riser-card assembly.
5. Place the PCI riser-card assembly on a flat and static-protective surface.
6. Carefully grasp the adapter by its top edge or upper corners, and pull the adapter from the PCI riser-card assembly.

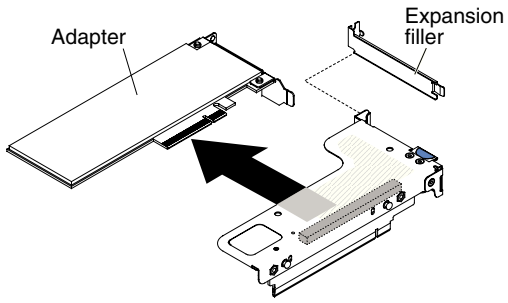


Figure 94. Adapter removal from a PCI riser-card assembly that has one low-profile slot (for PCI riser-card assembly connector 1 on system board)

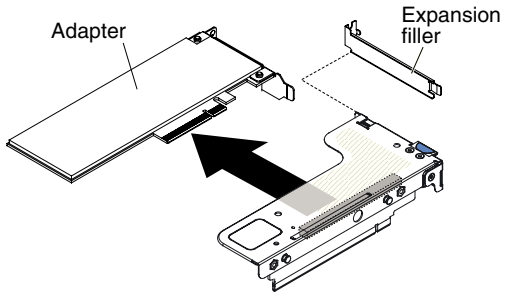


Figure 95. Adapter removal from a PCI riser-card assembly that has one low-profile slot for ML2 card (for PCI riser-card assembly connector 1 on system board)

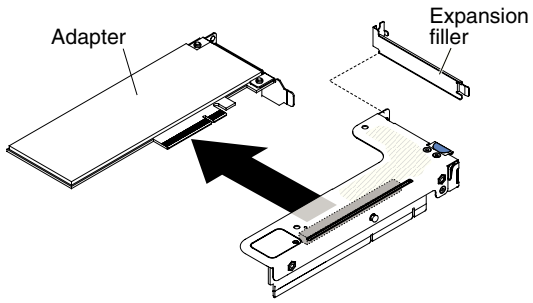


Figure 96. Adapter removal from a PCI riser-card assembly that has one low-profile slot (for PCI riser-card assembly connector 2 on system board)

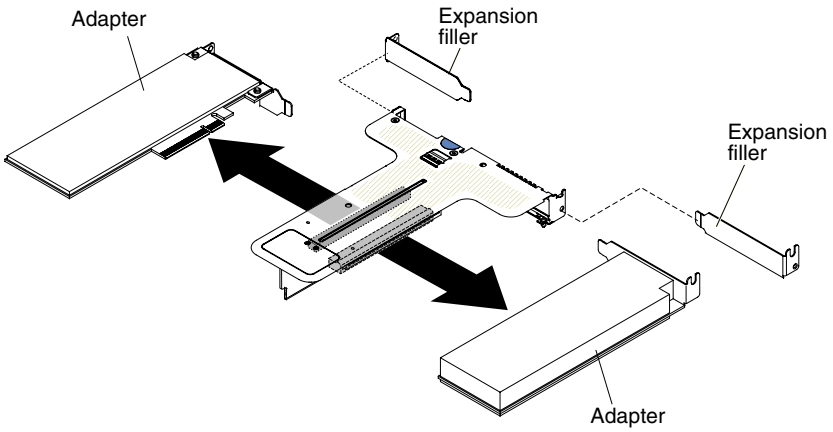


Figure 97. Adapter removal from a PCI riser-card assembly that has two low-profile slots (for PCI riser-card assembly connector 2 on system board)

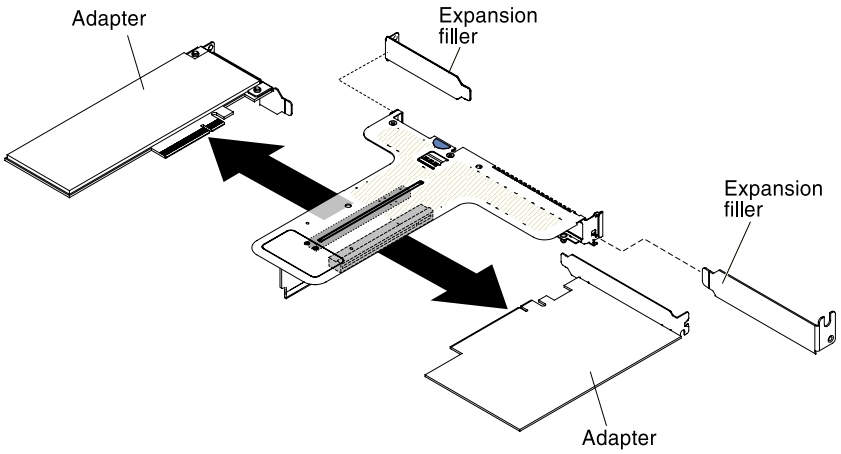


Figure 98. Adapter removal from a PCI riser-card assembly that has one low-profile slot and one full-height half-length slot (for PCI riser-card assembly connector 2 on system board)

Results

If you are instructed to return the adapter, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing 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.

About this task

- Locate the documentation that comes with the adapter and follow those instructions in addition to the instructions in this section.
- The server provides one internal SAS/SATA RAID connector and two PCI slots on the system board. See "System-board internal connectors" on page 27 for the location of the internal SAS/SATA RAID connector and riser-card slots. You can replace the IBM ServeRAID SAS/SATA adapter with an optional IBM ServeRAID SAS/SATA adapter in the slot. For configuration information, see the ServeRAID documentation at http://www.ibm.com/supportportal/.
- 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.
- Any high-definition video-out connector or stereo connector on any add-on video adapter is not supported
- The server does not support full-length, full-height PCI adapters or legacy 5V PCI adapters.
- When you install any PCI adapter, the power cords must be disconnected from the power source before you remove the PCI Express riser-card assembly. Otherwise, the active power management event signal will be disabled by the system-board logic, and the Wake on LAN feature might not work. However, after the server is powered-on locally, the active power manager active power management event signal will be enabled by the system-board logic.
- Pay attention to the following before installing any PCI adapter.

  Attention:

  1. Do not install the NVIDIA Grid Kx/Mxx, the NVIDIA Quadro Kxxxx or the NVIDIA Tesla Kxx adapter options in systems containing 1TB of system memory or more. If these options are installed in systems with 1TB of memory or more, it might cause undetected data corruption and system instability. These options are only supported in systems containing less than 1TB of memory. For more information, see RETAIN tip H213010 at http://www.ibm.com/support/entry/myportal/docdisplay?lndocid=migr-5096047.
- Pay attention to the following PCI adapter configuration table before installing any PCI adapter.

Table 33. Adapter configurations

Description	Option part number	PCI riser 1	PCI riser 2
N2226 SAS/SATA HBA	00AE916	Seven or eight fans installed required	Seven or eight fans installed required
Emulex Dual Port 10GbE SFP+ VFA IIIr	00D8540	Seven or eight fans installed required	Seven or eight fans installed required
QLogic 8200 Dual Port 10GbE SFP+ VFA	90Y4600	Seven or eight fans installed required	Seven or eight fans installed required
Intel X540 ML2 Dual Port 10GbaseT Adapter	00D1994	Seven or eight fans installed required	Seven or eight fans installed required

Table 33. Adapter configurations (continued)

Description	Option part number	PCI riser 1	PCI riser 2
Table note: 1. You can purchase IBM System x3550 M5 Thermal Solution Kit (option part number 00Y7117) to acquire two additional fans for your server.			

- The server provides two PCI riser-card slots on the system board. The following information indicates the riser-card slots and the type of adapters that the riser cards support:
  - If you want to install a PCI Express adapter, you must order the PCI riser-card option.
  - PCI riser slot 1. This slot supports only low-profile or ML2 adapters.
  - PCI riser slot 2. This slot supports full-height, half-length or low-profile adapters.

  The following table lists the supported PCI riser-card assembly configurations in the server.

Table 34. Configuration 1

Configuration 1				
Configuration	**Number of microprocessors installed**	**PCI riser-card assembly connector 1 on system board**	**PCI riser-card assembly connector 2 on system board**	
		Slot 1	**Slot 2**	**Slot 3**
• Three low-profile slots	One	x1/x4/x8/x16 low-profile	x1/x4/x8 low-profile	x1/x4/x8 low-profile

Table 35. Configuration 2

Configuration 2				
Configuration	**Number of microprocessors installed**	**PCI riser-card assembly connector 1 on system board**	**PCI riser-card assembly connector 2 on system board**	
		Slot 1	**Slot 2**	**Slot 3**
• Three low-profile slots	One or two	x1/x4/x8/x16 low-profile	x1/x4/x8/x16 low-profile **Note:** If only one microprocessor is installed, slot 2 cannot be used	x1/x4/x8/x16 low-profile

Table 36. Configuration 3.
Note: Slot 1 is for 60mm ML2 adapter

Configuration 3				
Configuration	**Number of microprocessors installed**	**PCI riser-card assembly connector 1 on system board**	**PCI riser-card assembly connector 2 on system board**	
		Slot 1	**Slot 2**	**Slot 3**
• One ML2 slot • One full-height, half-length slot • One low-profile slot	One	ML2	x1/x4/x8 full-height, half-length	x1/x4/x8 low-profile

Table 37. Configuration 4.
Note: Slot 1 is for 60mm ML2 adapter

Configuration 4				
Configuration	**Number of microprocessors installed**	**PCI riser-card assembly connector 1 on system board**	**PCI riser-card assembly connector 2 on system board**	
		Slot 1	**Slot 2**	**Slot 3**
• One ML2 slot • One half-length, full-height slot • One low-profile slot	One or two	ML2	x1/x4/x8/x16 full-height, half-length **Note:** If only one microprocessor is installed, slot 2 cannot be used	x1/x4/x8/x16 low-profile

Table 38. Configuration 5.
Note: Slot 1 is for standard low-profile ML2 adapter

Configuration 5				
Configuration	**Number of microprocessors installed**	**PCI riser-card assembly connector 1 on system board**	**PCI riser-card assembly connector 2 on system board**	
		Slot 1	**Slot 2**	**Slot 3**
• One ML2 slot • Two low-profile slots	One	ML2	x1/x4/x8 low-profile	x1/x4/x8 low-profile

Table 39. Configuration 6.

Note: Slot 1 is for standard low-profile ML2 adapter

Configuration 6				
Configuration	**Number of microprocessors installed**	**PCI riser-card assembly connector 1 on system board**	**PCI riser-card assembly connector 2 on system board**	
		Slot 1	**Slot 2**	**Slot 3**
• One ML2 slot • Two low-profile slots	One or two	ML2	x1/x4/x8/x16 low-profile **Note:** If only one microprocessor is installed, slot 2 cannot be used	x1/x4/x8/x16 low-profile

Table 40. Configuration 7

Configuration 7				
Configuration	**Number of microprocessors installed**	**PCI riser-card assembly connector 1 on system board**	**PCI riser-card assembly connector 2 on system board**	
		Slot 1	**Slot 2**	**Slot 3**
• One 2.5-inch hot-swap rear hard disk drive kit • One low-profile slot	One or two	X	X	x1/x4/x8/x16 low-profile

Notes:

1. Always refer to the above configurations when installing a PCI riser-card assembly. Do not install a PCI-riser card assembly that does not follow the above configurations. For example, when the 2.5-inch hot-swap rear hard disk drive kit is installed, only the PCI riser-card assembly with one x8 or x16 low-profile slot can be used for connector 2 on the system board.

The instructions in this section apply to any PCI adapter (for example, video graphics adapters or network adapters).

To replace an adapter, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords and all external cables.
3. Remove the cover (see "Removing the cover" on page 126).
4. Follow the cabling instructions, if any come with the adapter. Route the adapter cables before you install the adapter.

5. Insert the adapter into the PCI riser-card assembly, aligning the edge connector on the adapter with the connector on the PCI riser-card assembly. Press the edge of the connector *firmly* into the PCI riser-card assembly. Make sure that the adapter snaps into the PCI riser-card assembly securely. The following illustrates shows the different types of PCI riser-card assemblies:

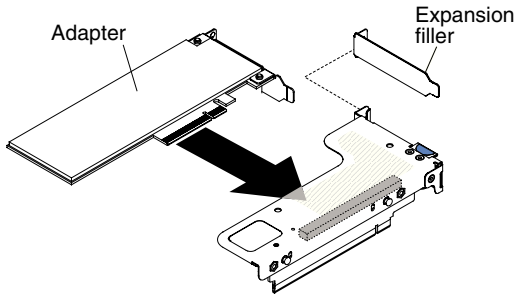


Figure 99. Adapter installation into a PCI riser-card assembly that has one low-profile slot (for PCI riser-card assembly connector 1 on system board)

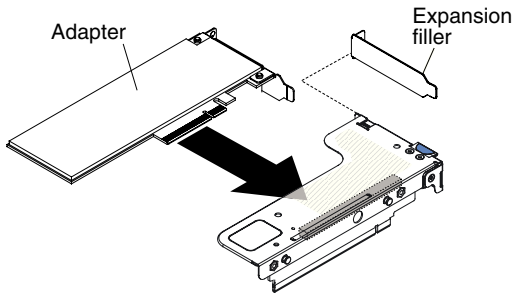


Figure 100. Adapter installation into a PCI riser-card assembly that has one low-profile slot for ML2 card (for PCI riser-card assembly connector 1 on system board)

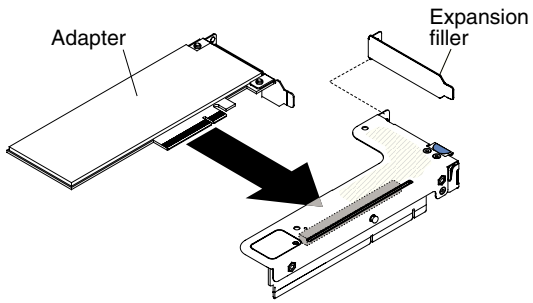


Figure 101. Adapter installation into a PCI riser-card assembly that has one low-profile slot (for PCI riser-card assembly connector 2 on system board)

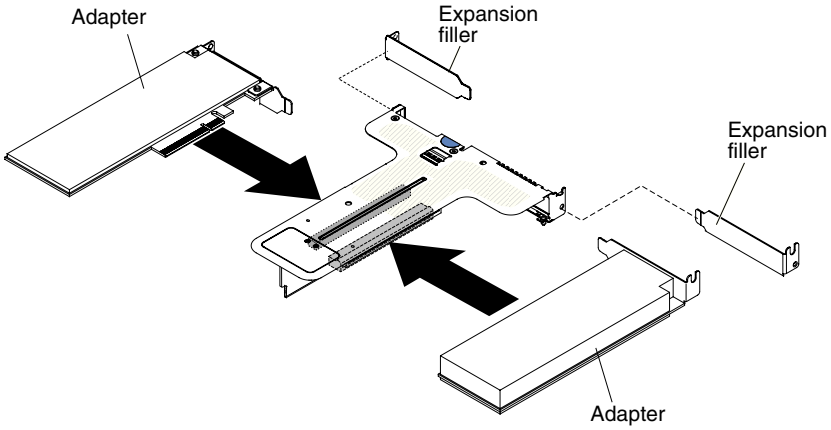


Figure 102. Adapter installation into a PCI riser-card assembly that has two low-profile slots (for PCI riser-card assembly connector 2 on system board)

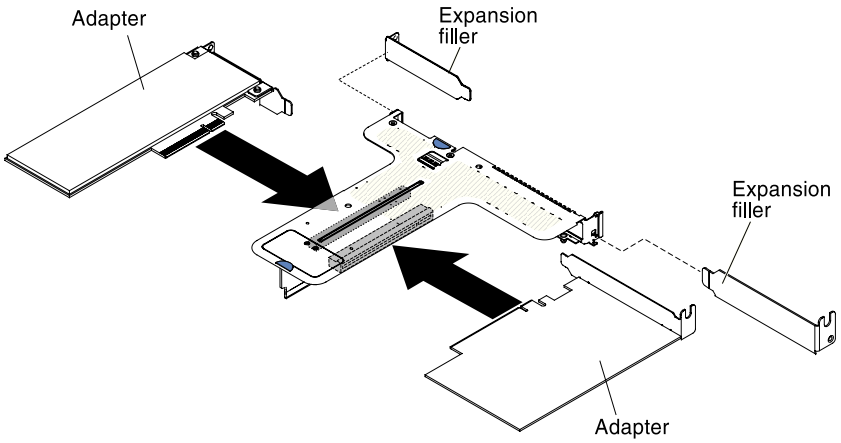


Figure 103. Adapter installation into a PCI riser-card assembly that has one low-profile slot and one full-height half-length slot (for PCI riser-card assembly connector 2 on system board)

Attention: When you install an adapter, make sure that the adapter is correctly seated in the riser-card assembly and that the riser-card assembly is securely seated in the riser-card connector on the system board before you turn on the server. An incorrectly seated adapter might cause damage to the system board, the riser-card assembly, or the adapter.

6. Install the PCI riser-card assembly in the server (see "Replacing a PCI riser-card assembly" on page 172).
7. Connect the cable to the newly-installed adapter.
8. Perform any configuration tasks that are required for the adapter.
9. Reinstall the cover (see "Replacing the cover" on page 127).
10. Slide the server into the rack.
11. Reconnect the power cords and any cables that you removed.
12. Turn on the peripheral devices and the server.

Removing a ServeRAID SAS/SATA controller

Use this information to remove a ServeRAID SAS/SATA controller.

About this task

The ServeRAID SAS/SATA controller can be installed in the dedicated connector on the system board or PCI riser-card slots (see "System-board internal connectors" on page 27 for the location of the connectors).

You can replace the ServeRAID controller with another supported ServeRAID controller. For a list of supported ServeRAID controllers, see http://www.ibm.com/systems/info/x86servers/serverproven/compat/us.

Note: For brevity, in this documentation the ServeRAID SAS/SATA controller is often referred to as the *SAS/SATA adapter* or the *ServeRAID adapter*.

To remove the SAS/SATA adapter from the system board, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect all power cords.
3. Remove the cover (see "Removing the cover" on page 126).
4. Disconnect the signal cables from the connectors on the SAS/SATA adapter and note their locations.
5. Remove the SAS/SATA adapter from the dedicated connector on the system board or the PCI riser-card assembly slot.

   Steps for removing a SAS/SATA adapter from the dedicated connector on the system board.

   a. Press the retention tabs away from the SAS/SATA adapter; then, slightly lift up the rear of the adapter, and pull it out of the connector on the system board.

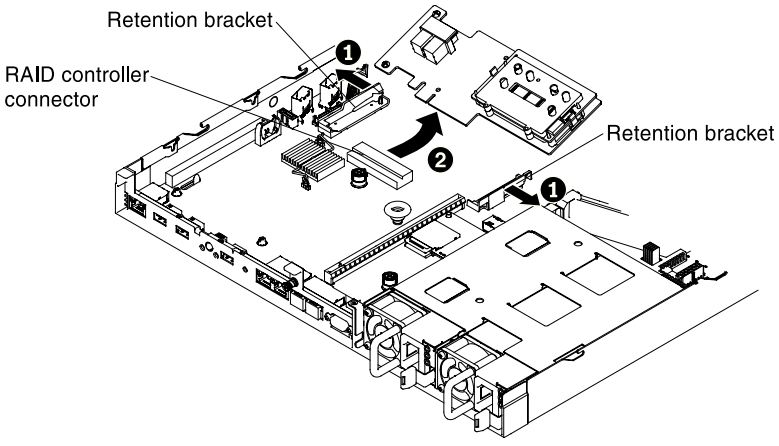


Figure 104. ServeRAID adapter removal

Note: If the optional ServeRAID adapter memory module is installed, remove it and store it for future use (see "Removing the ServeRAID adapter memory module" on page 192).

Steps for removing a SAS/SATA adapter from the PCI riser-card assembly.

a. Remove the PCI riser-card assembly that contains the SAS/SATA adapter (see "Removing a PCI riser-card assembly" on page 170).
b. Remove the SAS/SATA adapter from the PCI riser card assembly (see "Removing an adapter" on page 177).

Results

If you are instructed to return the SAS/SATA adapter, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing a ServeRAID SAS/SATA controller

Use this information to replace a ServeRAID SAS/SATA controller.

About this task

The ServeRAID SAS/SATA controller can be installed in the dedicated connector on the system board or PCI riser-card slots (see "System-board internal connectors" on page 27 for the location of the connectors). To install a SAS/SATA adapter, complete the following steps:

Depending on the server model, the server comes with either a ServeRAID M5210, a ServeRAID M1215, a ServeRAID N2215, or a ServeRAID M5225 SAS/SATA adapter installed.

Note: Remove the PCI bracket that comes with either the ServeRAID M5210, ServeRAID M1215, or ServeRAID M5225 adapter before installing it in the dedicated connector on the system board.

You can replace the ServeRAID controller with another supported ServeRAID controller. For a list of supported ServeRAID controllers, see http://www.ibm.com/systems/info/x86servers/serverproven/compat/us.

Note: For brevity, in this documentation the ServeRAID SAS/SATA controller is often referred to as the *SAS/SATA adapter* or the *ServeRAID adapter*.

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect all power cords.
3. Remove the cover (see "Removing the cover" on page 126).
4. If you are installing a new or replacement SAS/SATA adapter, touch the static-protective package that contains the new SAS/SATA adapter to any unpainted metal surface on the server. Then, remove the new SAS/SATA adapter from the package.
5. Align the SAS/SATA adapter so that the keys align correctly with the connector on the system board.
6. Insert the SAS/SATA adapter in the dedicated connector on the system board or the PCI riser-card assembly slot.

   Attention: Incomplete insertion might cause damage to the server or the adapter.

Steps for inserting a SAS/SATA adapter in the dedicated connector on the system board

a. Insert the SAS/SATA adapter into the RAID connector on the system board until it is firmly seated. The retention brackets secure the SAS/SATA adapter in place when the adapter is firmly seated into the connector.

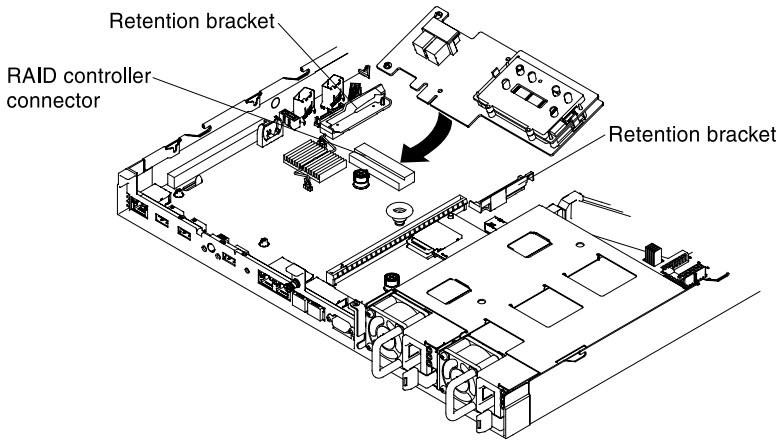


Figure 105. ServeRAID adapter installation

Note: Remove the PCI bracket that comes with either the ServeRAID M5210, ServeRAID M1215, or ServeRAID N2215 adapter before installing it in the dedicated connector on the system board.

Steps for inserting a SAS/SATA adapter in the dedicated connector on the PCI riser-card assembly slot.

a. Remove the PCI riser-card assembly that you wish to install the SAS/SATA adapter into (see "Removing a PCI riser-card assembly" on page 170).
b. Insert the SAS/SATA adapter into the PCI riser card assembly (see "Replacing an adapter" on page 180).
c. Insert the PCI riser card assembly into the system board (see "Replacing a PCI riser-card assembly" on page 172).

7. Route the backplane signal cables. The following illustrations applies to SAS/SATA adapters that are inserted into the dedicated connector on the system board

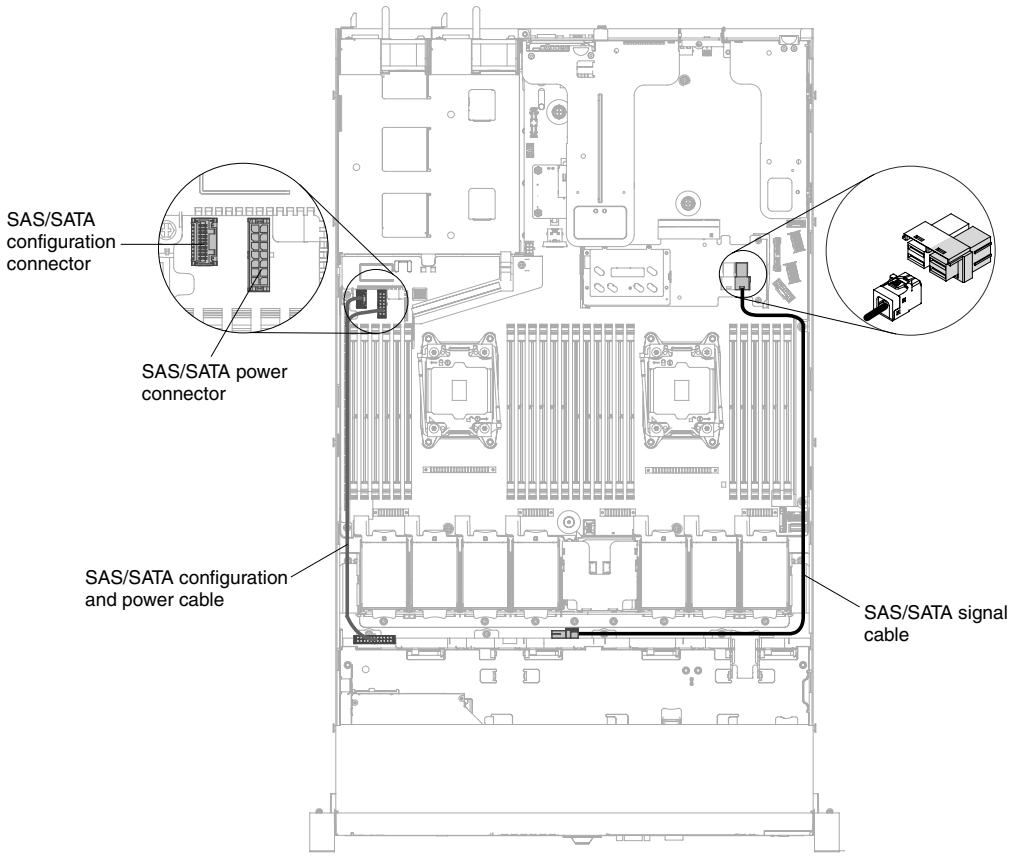


Figure 106. ServeRAID adapter cable routing for four hot-swap 3.5-inch hard disk drive configuration

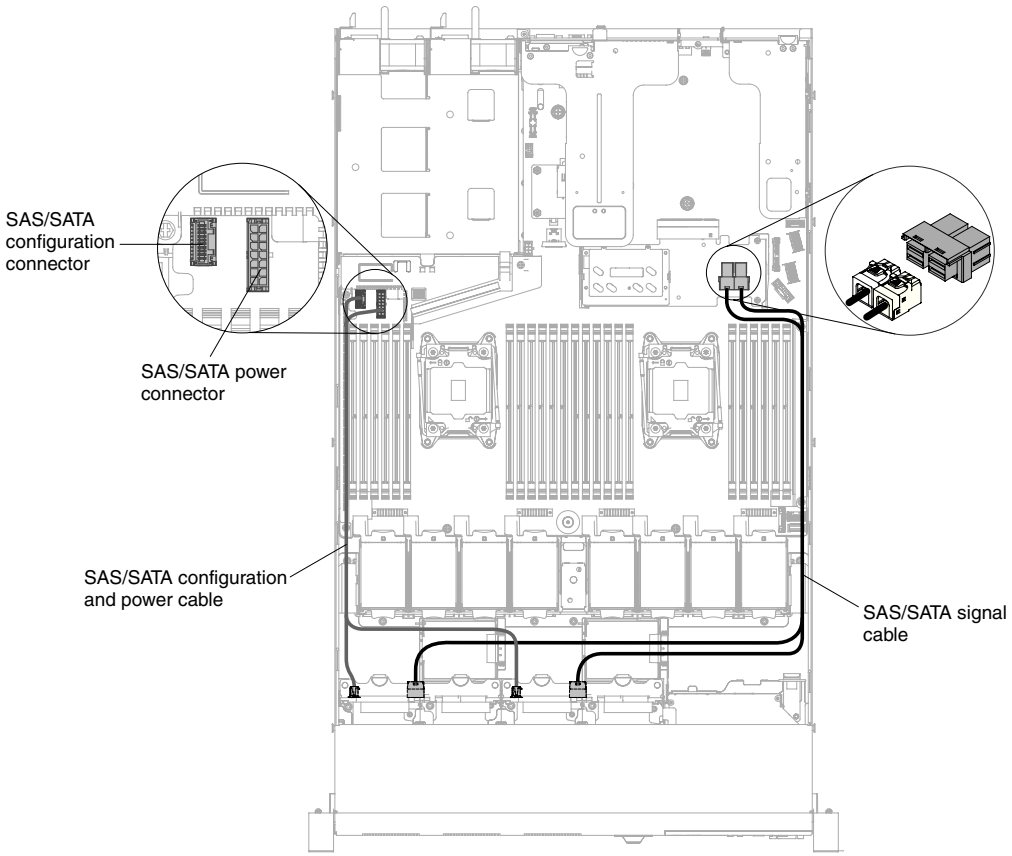


Figure 107. ServeRAID adapter cable routing for eight hot-swap 2.5-inch hard disk drive configuration

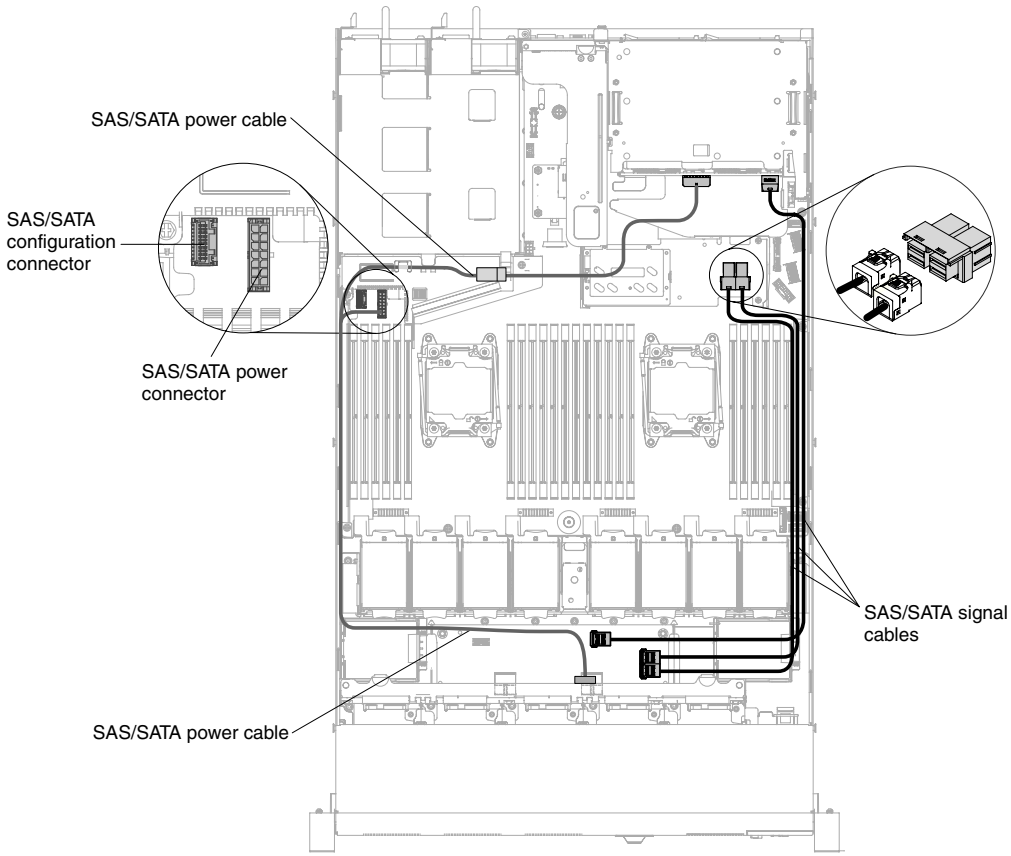


Figure 108. ServeRAID adapter cable routing for ten hot-swap 2.5-inch hard disk drive configuration

8. Connect the signal cables to the SAS/SATA adapter:
9. Reconnect any cables that you removed.
10. Replace PCI riser-card assembly 1 if you have removed it earlier (see "Replacing a PCI riser-card assembly" on page 172).
11. Reinstall the cover (see "Replacing the cover" on page 127).
12. Turn on the peripheral devices and the server.

Results

Note: When you restart the server, you are prompted to import the existing RAID configuration to the new ServeRAID adapter.

Removing the ServeRAID adapter memory module

Use this information to remove the ServeRAID adapter memory module.

About this task

To remove the ServeRAID adapter memory module, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect all power cords.
3. Remove the cover (see "Removing the cover" on page 126).
4. Remove the ServeRAID SAS/SATA controller (see "Removing a ServeRAID SAS/SATA controller" on page 186).
5. Press the retention tabs away from the memory module; then, grasp the memory module and lift to remove it from the connector on the ServeRAID adapter.

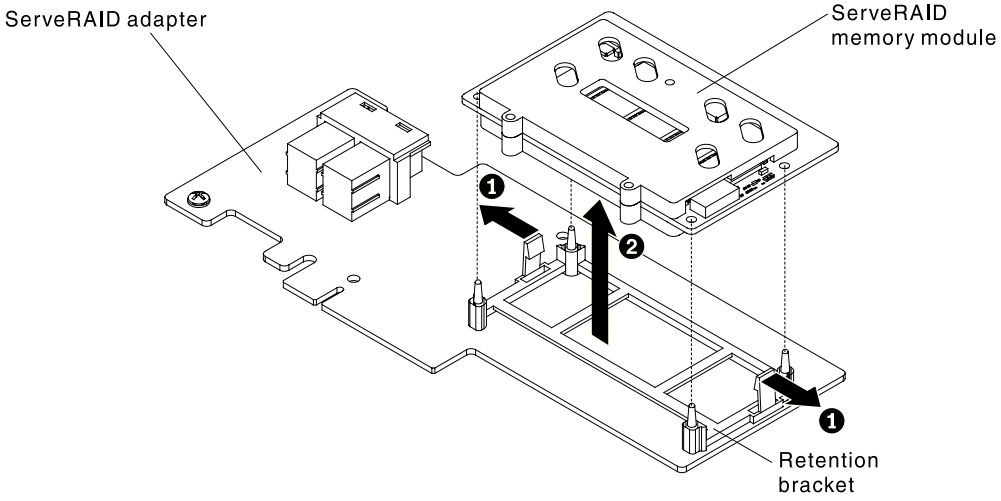


Figure 109. ServeRAID memory module removal

Results

If you are instructed to return the memory module, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing the ServeRAID adapter memory module

Use this information to replace the ServeRAID adapter memory module.

About this task

To install the ServeRAID adapter memory module, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect all power cords.
3. Remove the cover (see "Removing the cover" on page 126).
4. Remove the ServeRAID SAS/SATA controller (see "Removing a ServeRAID SAS/SATA controller" on page 186).
5. Align the memory module with the connector on the ServeRAID adapter and push it into the connector until it is firmly seated.

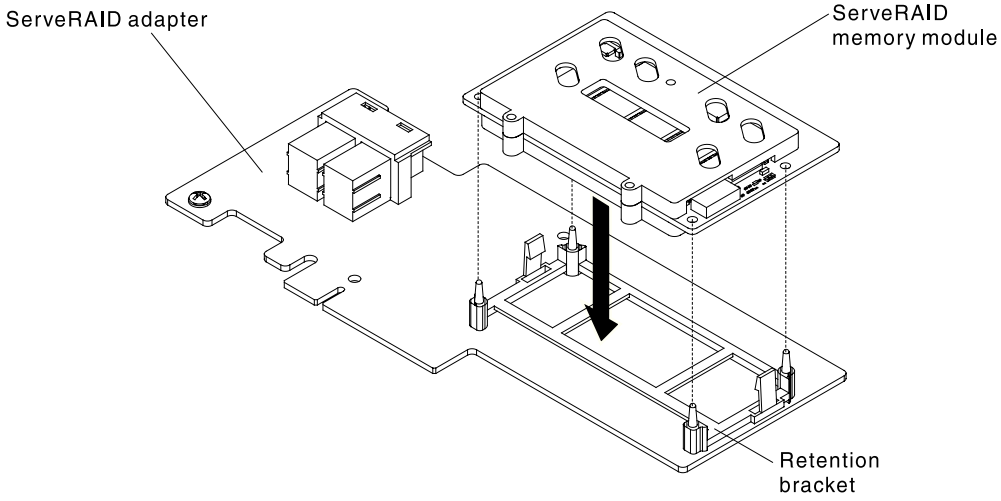


Figure 110. ServeRAID memory module installation

6. Reinstall the ServeRAID SAS/SATA controller (see "Replacing a ServeRAID SAS/SATA controller" on page 187).
7. Reconnect the power cords and any cables that you removed.
8. Reinstall the cover (see "Replacing the cover" on page 127).
9. Slide the server into the rack.
10. Turn on the peripheral devices and the server.

Removing a thermal kit (hot-swap fan)

Use this information to remove a thermal kit (hot-swap fan).

About this task

Attention: To ensure proper server operation, replace a failed hot-swap fan within 30 seconds.

To remove a hot-swap-fan, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Remove the cover (see "Removing the cover" on page 126).
3. Grasp the orange fan tabs on both ends of the fan and slowly lift it out of the chassis.

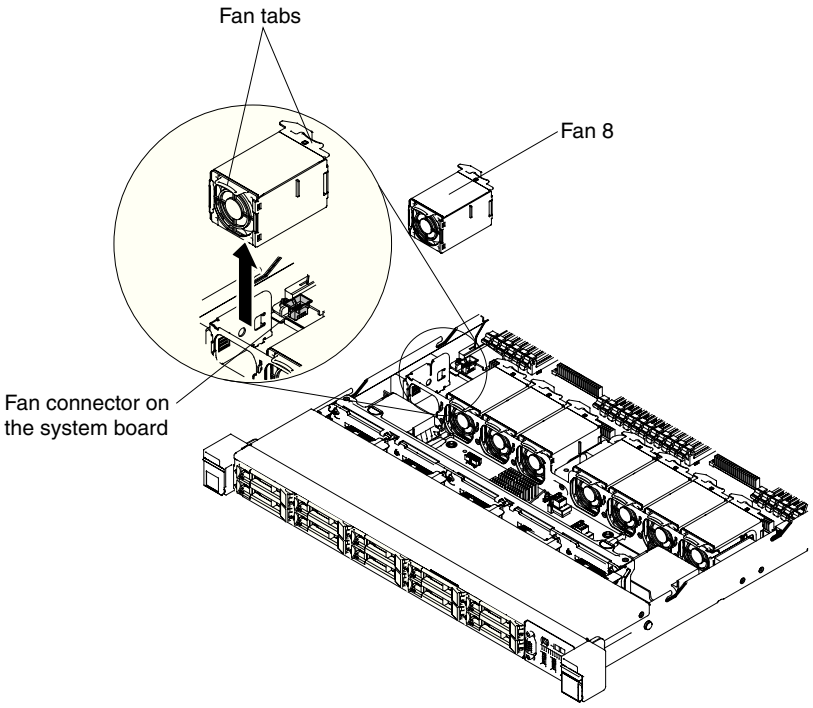


Figure 111. Fan removal

Results

If you are instructed to return the fan, follow all of the packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing a thermal kit (hot-swap fan)

Use this information to replace a thermal kit (hot-swap fan)

About this task

The server comes standard with four dual-motor hot-swap cooling fans. When there is one microprocessor installed, install fan 1, 2, 3, and 5 for proper cooling.

Attention: To ensure proper operation, replace a failed hot-swap fan within 30 seconds.

To replace a hot-swap fan, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Remove the cover (see "Removing the cover" on page 126).
3. Touch the static-protective package that contains the new fan to any unpainted metal surface on the server. Then, remove the new fan from the package.
4. Orient the fan over the fan slot in the fan assembly bracket so that the fan connector aligns with the connector on the system board.

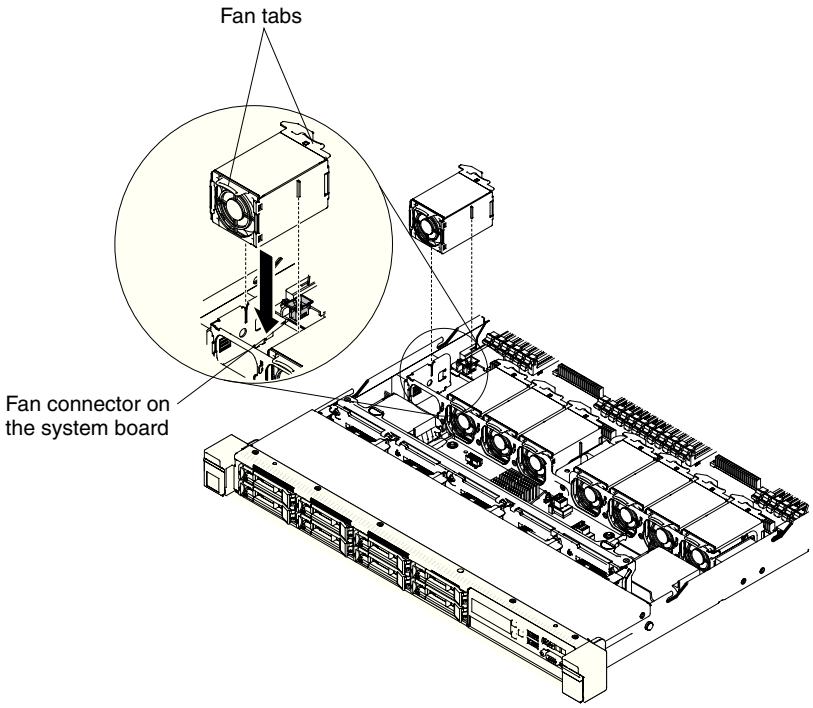


Figure 112. Fan installation (1)

5. Insert the fan into the fan slot in the fan assembly bracket and press it down until it is seated correctly in the slot and the fan connector is installed correctly to the connector on the system board.

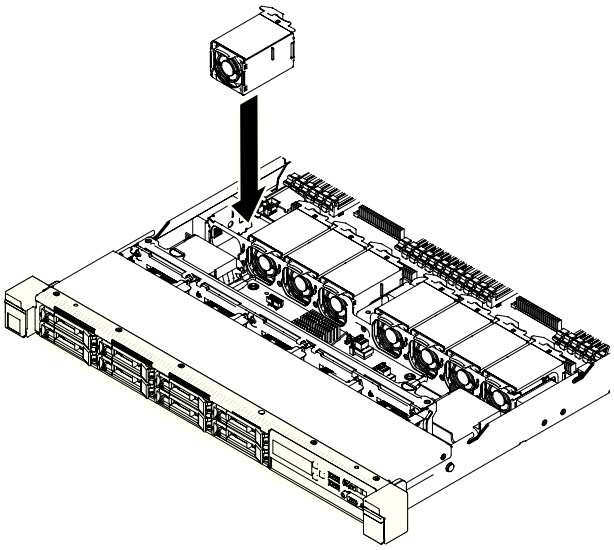


Figure 113. Fan installation (2)

Note: Make sure that the newly-installed fan aligns horizontally with other correctly-seated fans for proper installation.

6. Reinstall the cover (see "Replacing the cover" on page 127).
7. Slide the server into the rack.

Removing a power supply

Use this information to remove a power supply.

Removing a hot-swap ac power supply

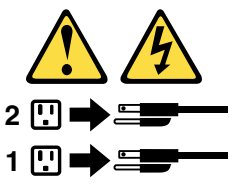
Use this information to remove a hot-swap ac power supply.

About this task

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.

To remove a hot-swap ac power supply, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. If only one power supply is installed, turn off the server and peripheral devices and disconnect all power cords.
3. If the server is in a rack, at the back of the server, pull back the cable management arm to gain access to the rear of the server and the power supply.
4. Press and hold the release tab to the left. Grasp the handle and pull the power supply out of the server.

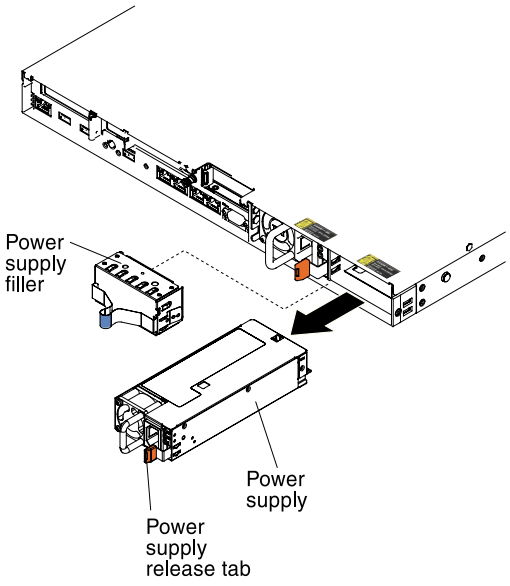


Figure 114. Power supply removal

Results

If you are instructed to return the power supply, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing a power supply

Use this information to replace a power supply.

Replacing a hot-swap ac power supply

Use this information to replace a hot-swap ac power supply.

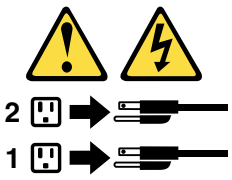
About this task

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

- Before you install an additional power supply or replace a power supply with one of a different wattage, you may 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.
- The server comes with one hot-swap 12-volt output power supply that connects to power supply bay 1. The input voltage is 100-127 V ac or 200-240 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. For example, you cannot mix 550-watt, 750-watt or 900-watt power supplies in the server.
- You cannot mix high-efficiency and non-high-efficiency power supplies in the server.
- 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.

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

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. 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.
3. If you are installing a hot-swap power supply into an empty bay, remove the power-supply filler from the power-supply bay.

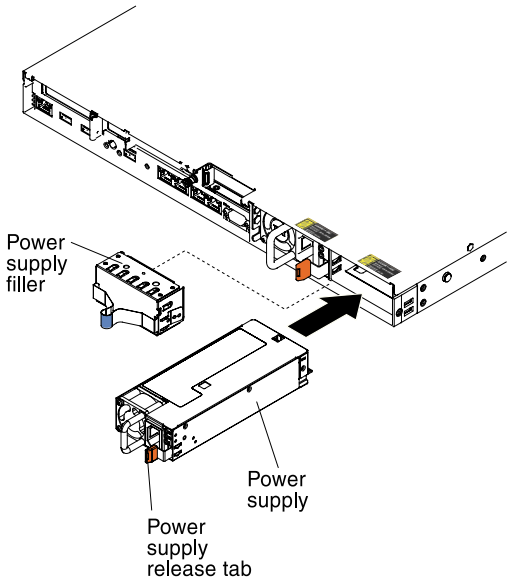


Figure 115. Power supply installation

4. Grasp the handle on the rear of the power supply and slide the power supply forward into the power-supply bay until it clicks. Make sure that the power supply connects firmly into the power-supply connector.

   Attention: Do not mix 550-watt, 750-watt or 900-watt power supplies in the server.

5. Route the power cord through the handle and cable tie if any, so that it does not accidentally become unplugged.
6. Connect the power cord for the new power supply to the power-cord connector on the power supply.
7. Connect the other end of the power cord to a properly grounded electrical outlet.
8. 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.
9. If you are replacing a power supply with one of a different wattage in the server, apply the new power information label provided over the existing power information label on the server. Power supplies in the server must be with the same power rating or wattage to ensure that the server will operate correctly.
10. 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.

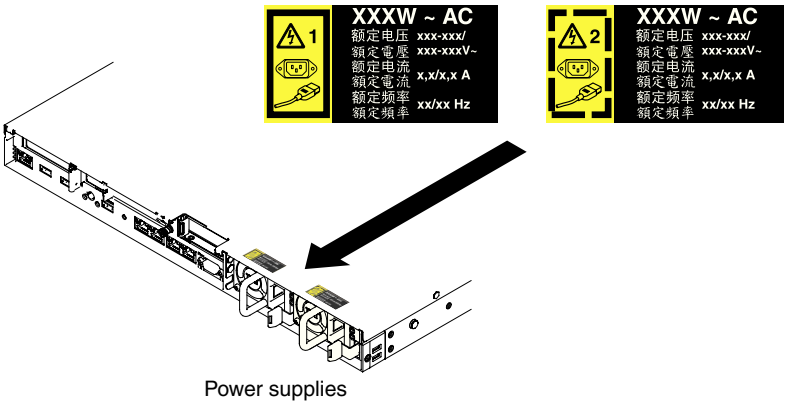


Figure 116. Redundant power information label

Removing a hot-swap hard disk drive backplane

Use this information to remove a hot-swap hard disk drive backplane.

About this task

To remove the hot-swap hard disk drive backplane, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords and all external cables, if necessary.
3. Remove the cover (see "Removing the cover" on page 126).
4. Remove the filler panels from the drive bay.
5. Pull the hard disk drives out of the server slightly to disengage them from the hard disk drive backplane (see "Removing hot-swap hard disk drives" on page 143).
6. Remove the hot-swap hard disk drive backplane. Based on the server configuration, the hot-swap hard disk drive backplane may appear as either of the following three.

   Steps for removing a 4 x 2.5-inch hot-swap hard disk drive backplane.

   Note: Two 4 x 2.5-inch hot-swap hard disk drive backplane are used for the eight 2.5-inch hard disk drive server configuration.

   a. Carefully lift the backplane out of the chassis by pulling outwards and lifting it up.

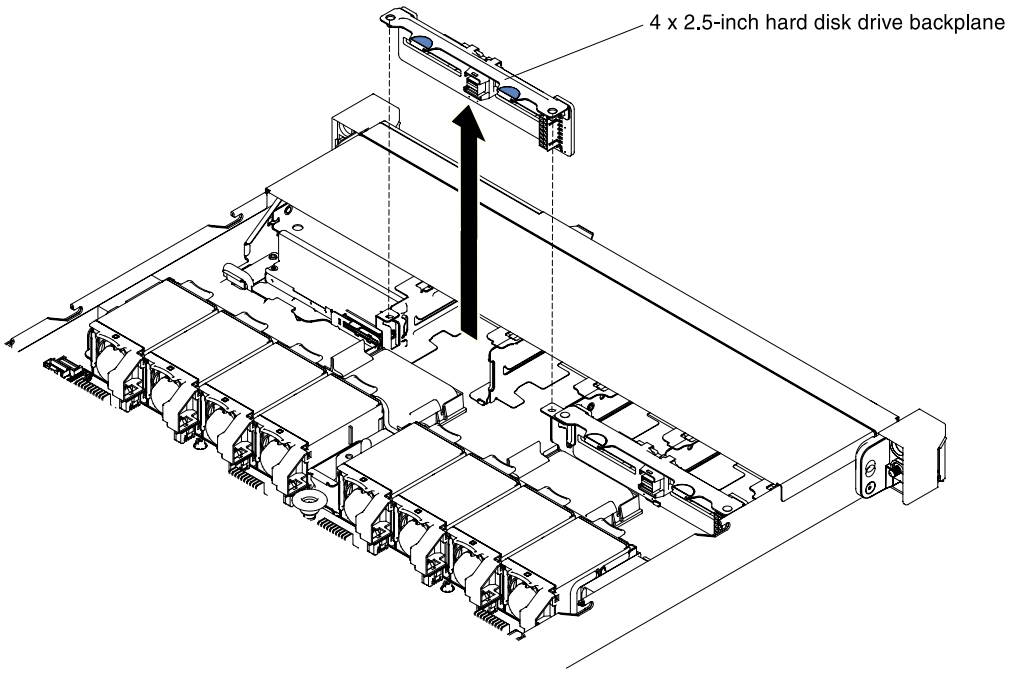


Figure 117. 4 x 2.5-inch hot-swap hard disk drive backplane removal

Steps for removing a 10 x 2.5-inch hot-swap hard disk drive backplane.

a. Carefully lift the backplane out of the chassis by pulling outwards and lifting it up.

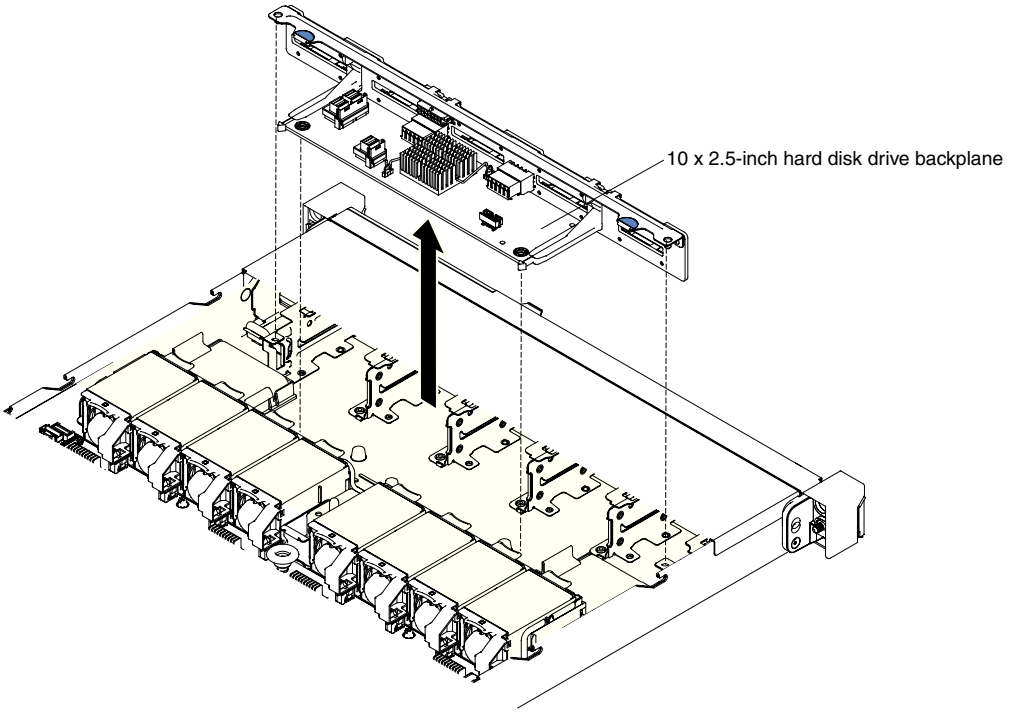


Figure 118. 10 x 2.5-inch hot-swap hard disk drive backplane removal

Steps for removing a 4 x 3.5-inch hot-swap hard disk drive backplane.

a. Lift the release latches that secures the backplane to the chassis.
b. Carefully lift the backplane out of the chassis by pulling outwards and lifting it up.

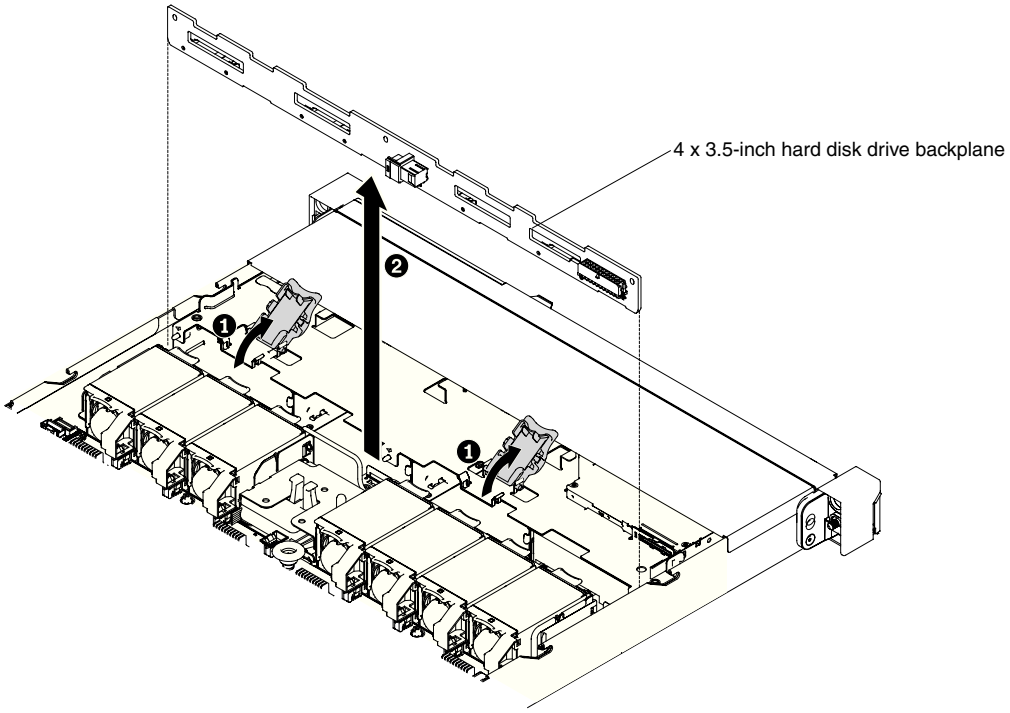


Figure 119. 4 x 3.5-inch hot-swap hard disk drive backplane removal

7. Disconnect all cables from the hard disk drive backplane.

Results

If you are instructed to return the hard disk drive backplane, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing a hot-swap hard disk drive backplane

Use this information to replace a hot-swap hard disk drive backplane.

About this task

To install the replacement hot-swap hard disk drive backplane, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Reconnect the cables to the hard disk drive backplane.
3. Install the hot-swap hard disk drive backplane. Based on the server configuration, the hot-swap hard disk drive backplane may appear as either of the following three.

   Steps for installing a 4 x 2.5-inch hot-swap hard disk drive backplane.

   Note: Two 4 x 2.5-inch hot-swap hard disk drive backplanes are used for the eight 2.5-inch hard disk drive server configuration.

   a. Align the backplane with the slots on the chassis.

b. Carefully lower the hard disk drive backplane until it is fully seated in the chassis.

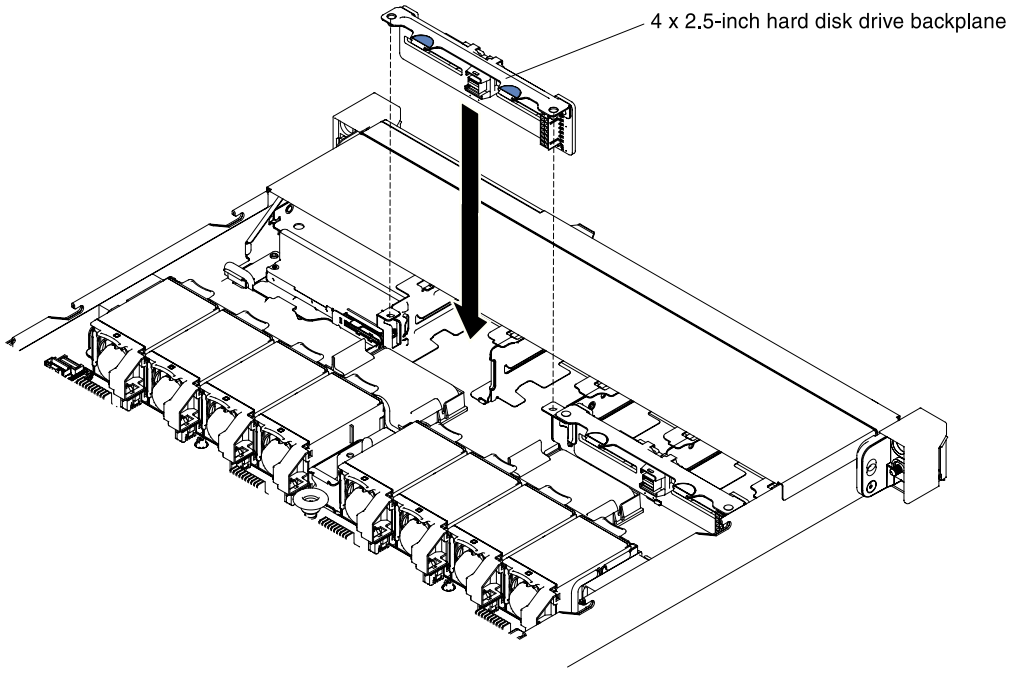


Figure 120. 4 x 2.5-inch hot-swap hard disk drive backplane installation

Steps for installing a 10 x 2.5-inch hot-swap hard disk drive backplane.

a. Align the backplane with the slots on the chassis.
b. Carefully lower the hard disk drive backplane until it is fully seated in the chassis.

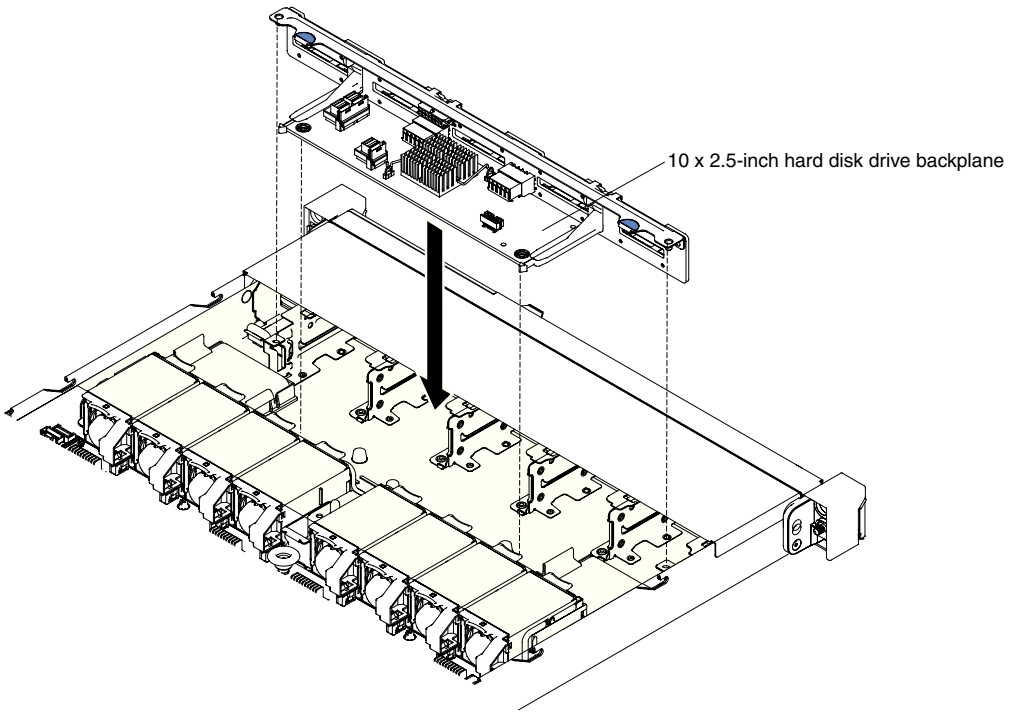


Figure 121. 10 x 2.5-inch hot-swap hard disk drive backplane installation

Steps for installing a 4 x 3.5-inch hot-swap hard disk drive backplane.

a. Carefully lower the hard disk drive backplane until it is fully seated in the chassis.

b. Secure the backplane to the chassis by pressing the release latches.

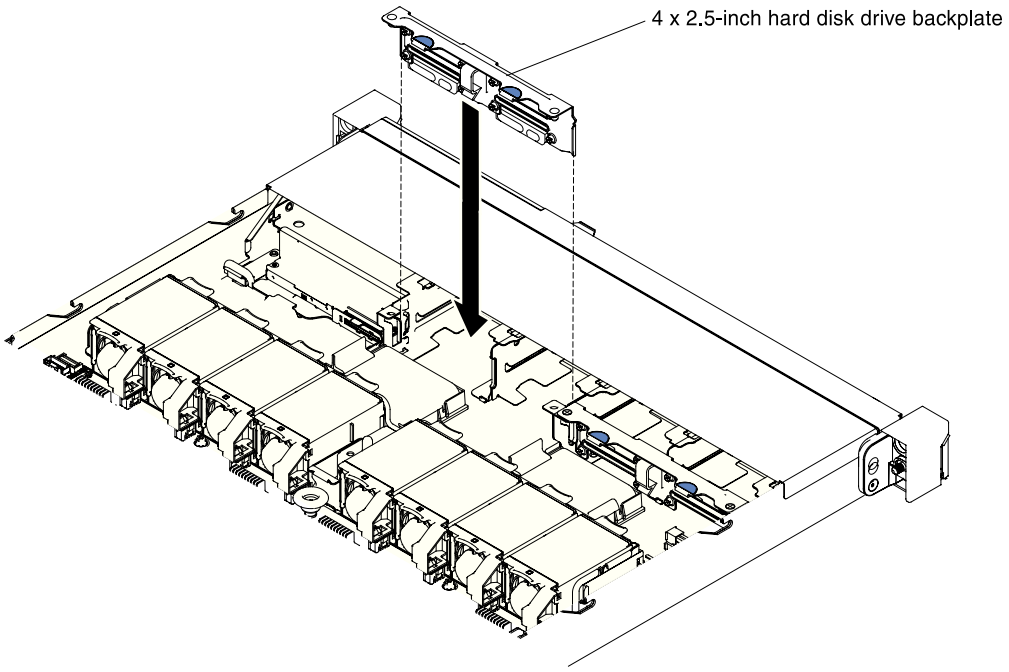


Figure 122. 4 x 3.5-inch hot-swap hard disk drive backplane installation

4. Connect the signal, power and configuration cables to the system board. Route the signal cable from the drive backplane along the chassis and connect it to the SAS/SATA controller connectors. Then, route the power cable and the configuration cable from the drive backplane along the chassis and connect it to the SAS/SATA power connector and SAS/SATA configuration connector. The following illustration shows the cable routing and connectors for the 2.5-inch and 3.5-inch hot-swap backplanes.

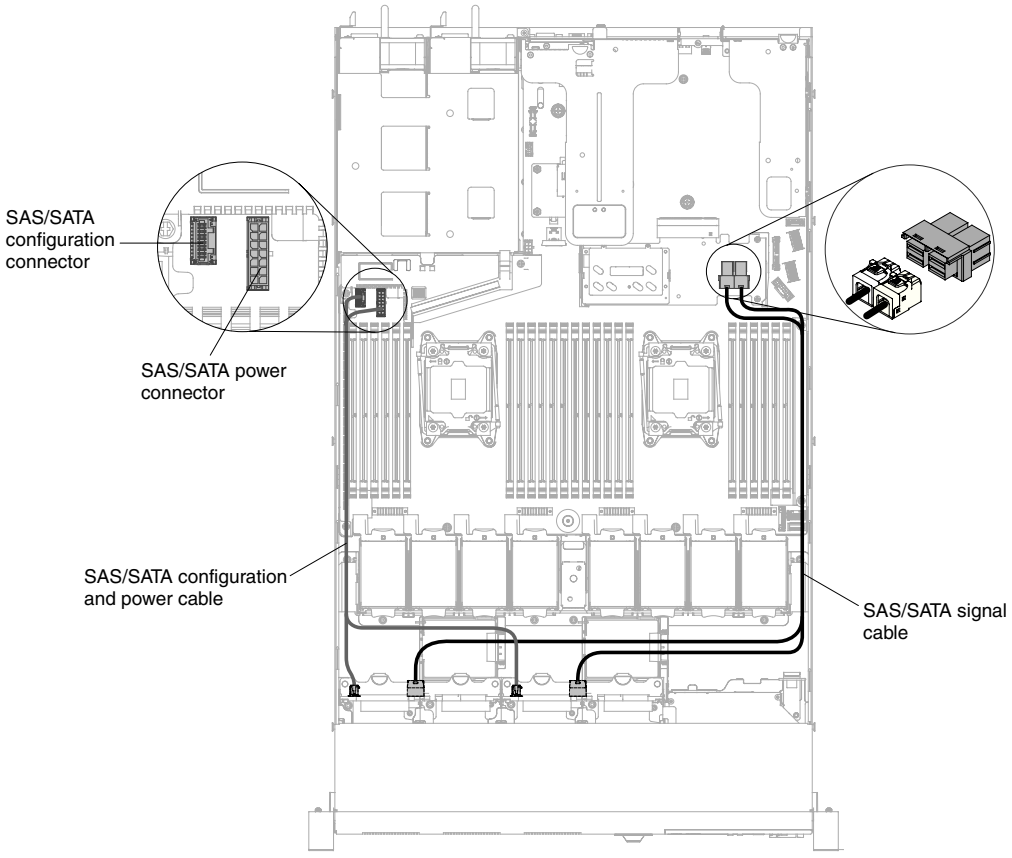


Figure 123. 8 x 2.5-inch hot-swap backplane cable connection

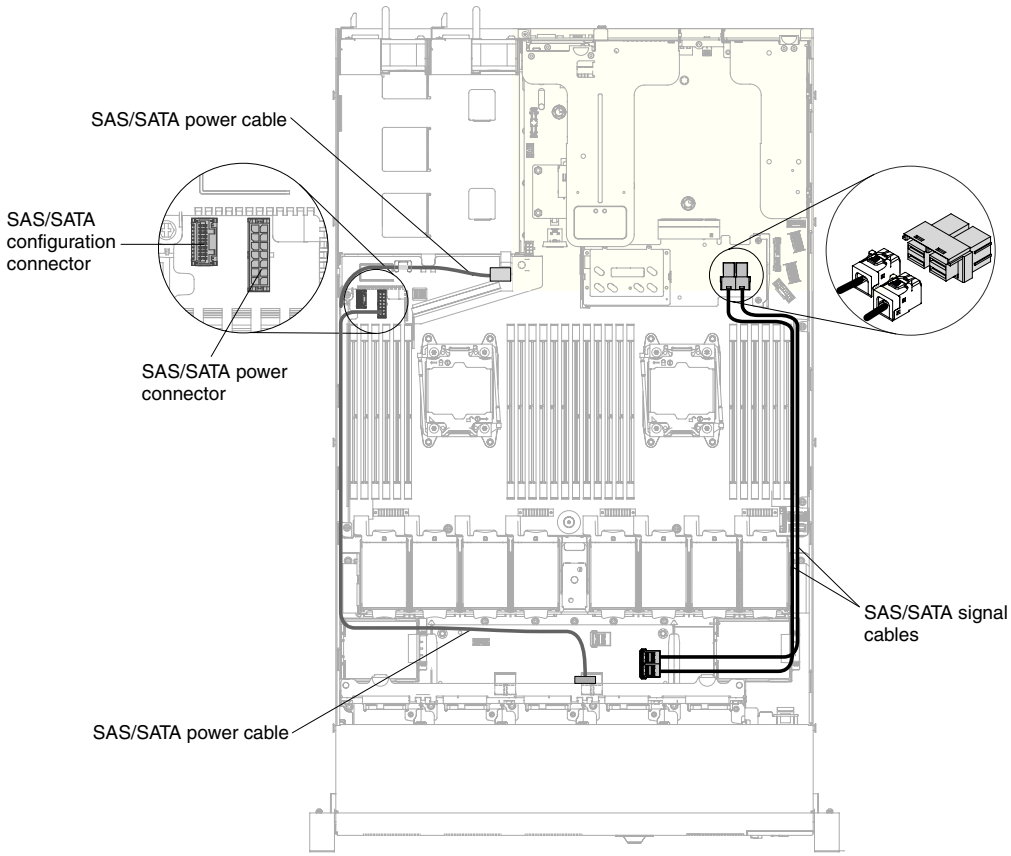


Figure 124. 10 x 2.5-inch hot-swap backplane cable connection

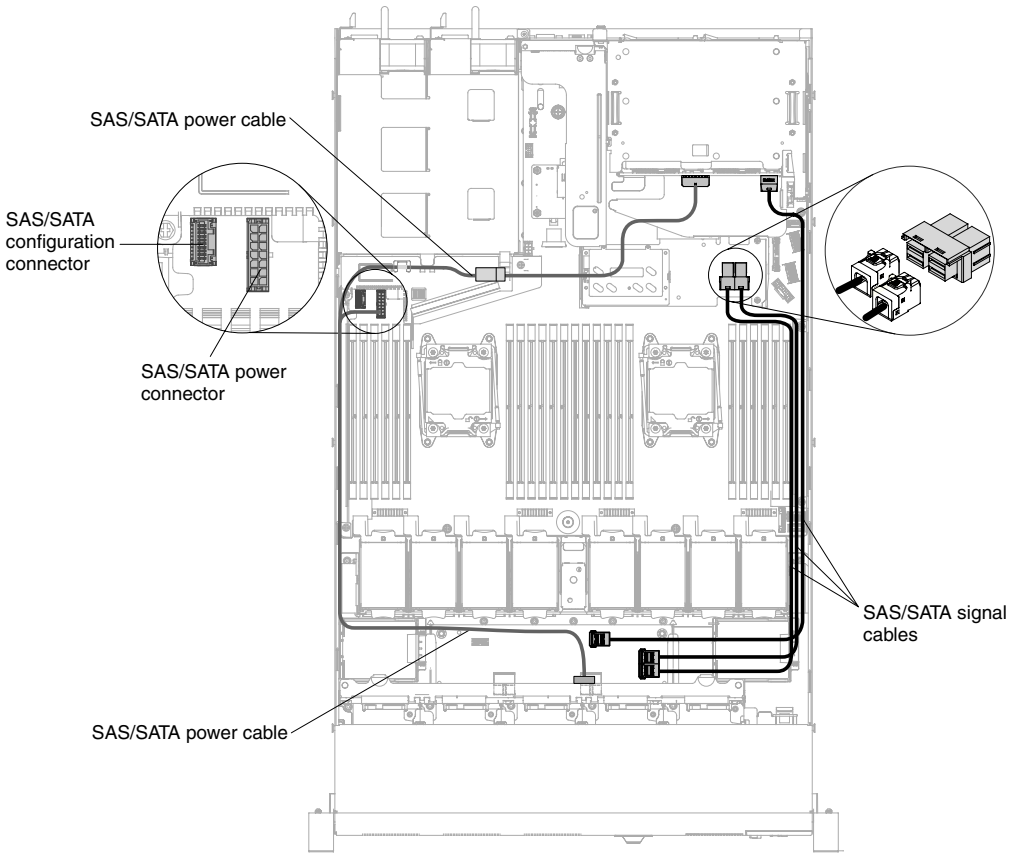


Figure 125. 12 x 2.5-inch hot-swap backplane cable connection

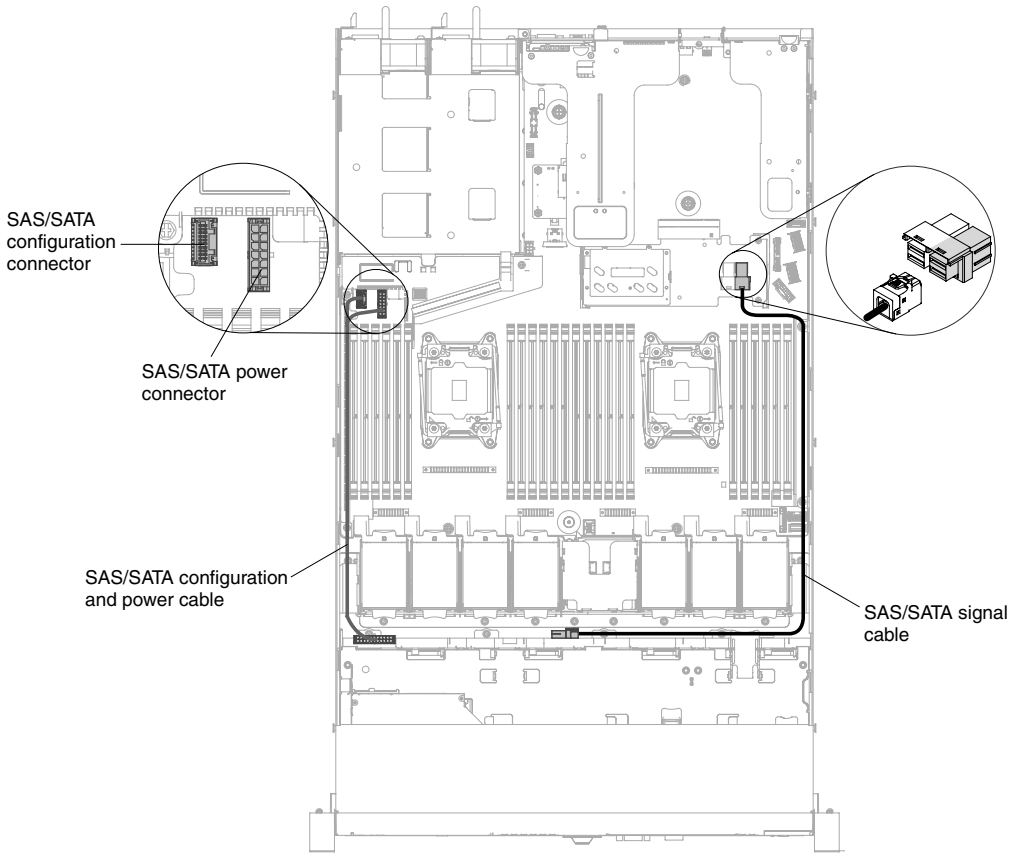


Figure 126. 4 x 3.5-inch hot-swap hard disk drive backplane installation

5. Reinstall the hard disk drives and filler panels (see "Replacing hot-swap hard disk drives" on page 144).
6. Reinstall the cover (see "Replacing the cover" on page 127).
7. Slide the server into the rack.
8. Reconnect the power cords and any cables that you removed.
9. Turn on the peripheral devices and the server.

Removing a simple-swap hard disk drive backplate

Use this information to remove a simple-swap hard disk drive backplate.

About this task

To remove a simple-swap hard disk drive backplate assembly, complete the following steps:

Note: The ten 2.5-inch simple-swap hard disk drive model is not supported.

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect all power cords.
3. Remove the cover (see "Removing the cover" on page 126).
4. Remove the filler panels from the drive bay.

5. Slide the blue release tab to the right with one finger while using another finger to grasp the black drive handle and pull the hard disk drives out of the server slightly to disengage them from the hard disk drive backplate (see "Removing simple-swap hard disk drives" on page 145).
6. Remove the simple-swap hard disk drive backplate assembly. Based on the server configuration, the simple-swap hard disk drive backplate assembly may appear as either of the following two.

   Steps for removing a 4 x 2.5-inch simple-swap hard disk drive backplate assembly.

   Note: Two 4 x 2.5-inch simple-swap hard disk drive backplate assemblies are used for the eight 2.5-inch hard disk drive server configuration.

   a. Carefully lift the backplate assembly out of the chassis by pulling outwards and lifting it up.

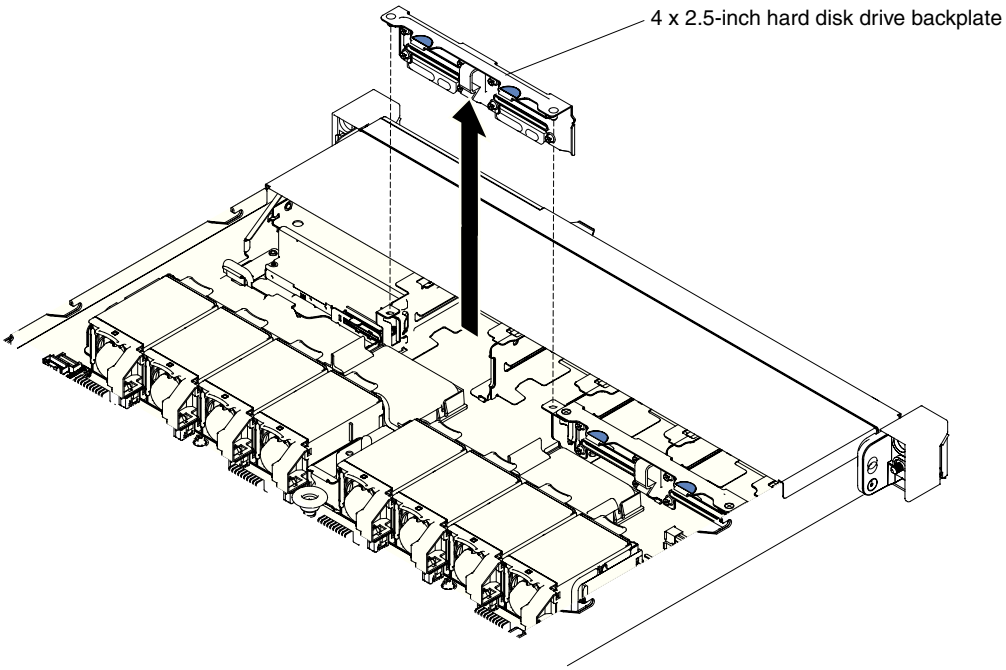


Figure 127. 4 x 2.5-inch simple-swap hard disk drive backplate assembly removal

Steps for removing a 4 x 3.5-inch simple-swap hard disk drive backplate.

a. Lift the release latches that secures the backplate assembly to the chassis.
b. Carefully lift the backplate assembly out of the chassis by pulling outwards and lifting it up.

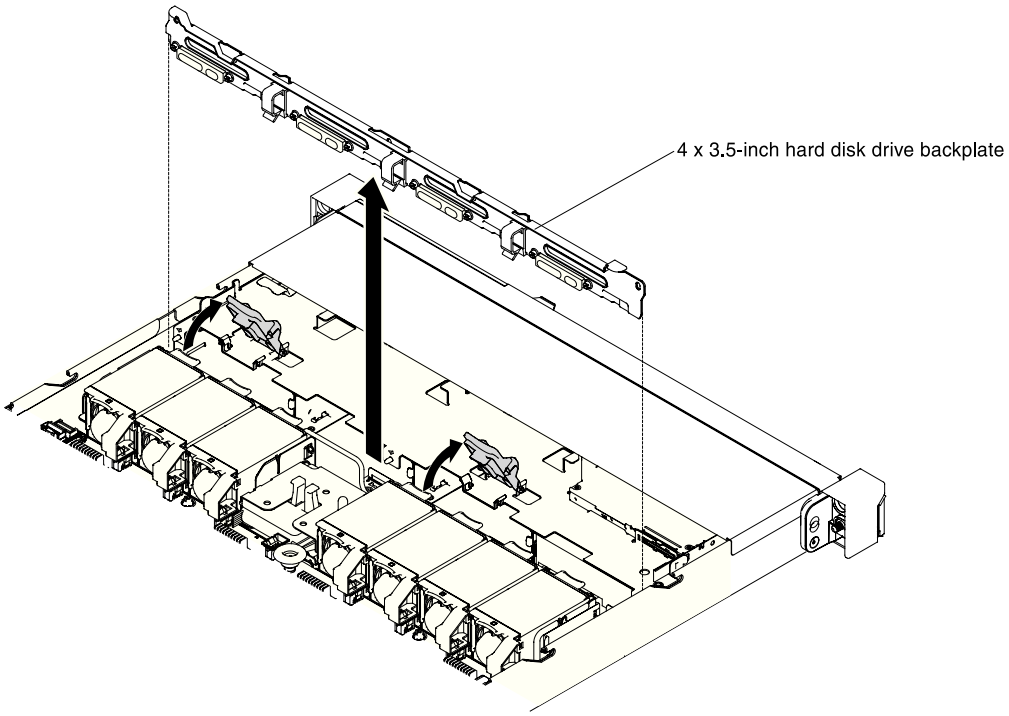


Figure 128. 4 x 3.5-inch simple-swap hard disk drive backplate assembly removal

7. Disconnect the power and signal cables from the system board.

Results

If you are instructed to return the hard disk drive backplate assembly, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing a simple-swap hard disk drive backplate

Use this information to replace a simple-swap hard disk drive backplate.

About this task

To install the replacement simple-swap hard disk drive backplate assembly, complete the following steps:

Note: The ten 2.5-inch simple-swap hard disk drive model is not supported.

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Install the simple-swap hard disk drive backplate assembly. Based on the server configuration, the simple-swap hard disk drive backplate assembly may appear as either of the following two.

   Steps for installing a 4 x 2.5-inch simple-swap hard disk drive backplate assembly.

   Note: Two 4 x 2.5-inch simple-swap hard disk drive backplate assemblies are used for the eight 2.5-inch hard disk drive server configuration.

a. Align the backplate assembly with the slots on the chassis.
b. Carefully lower the backplate assembly into the chassis until it is seated firmly.

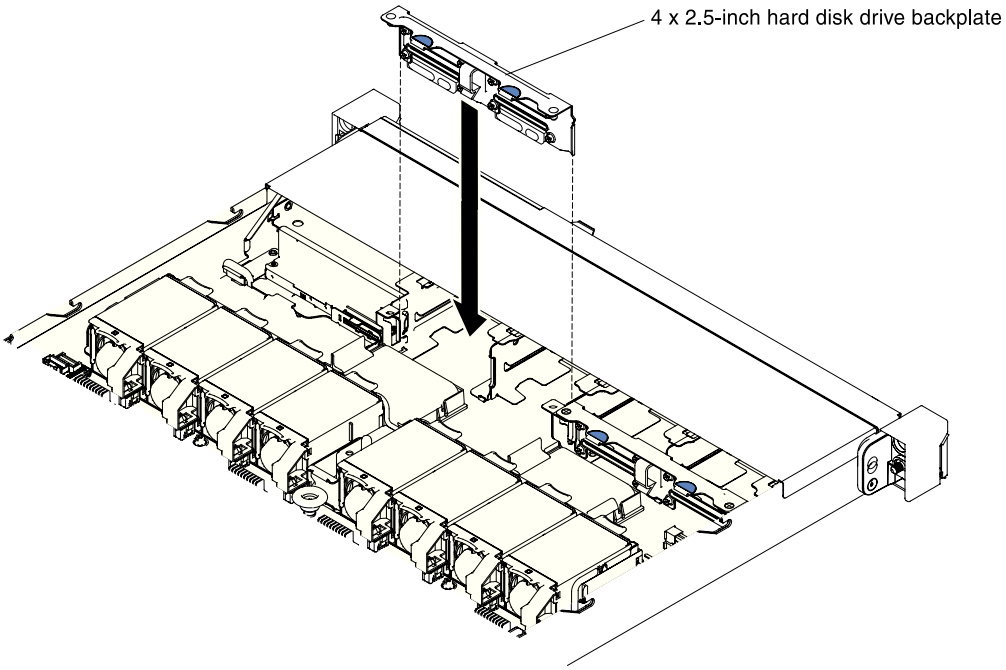


Figure 129. 4 x 2.5-inch simple-swap hard disk drive backplate assembly installation

Steps for installing a 4 x 3.5-inch simple-swap hard disk drive backplate assembly.

a. Carefully lower the backplate assembly into the chassis until it is seated firmly.
b. Secure the backplate assembly to the chassis by pressing the release latches.

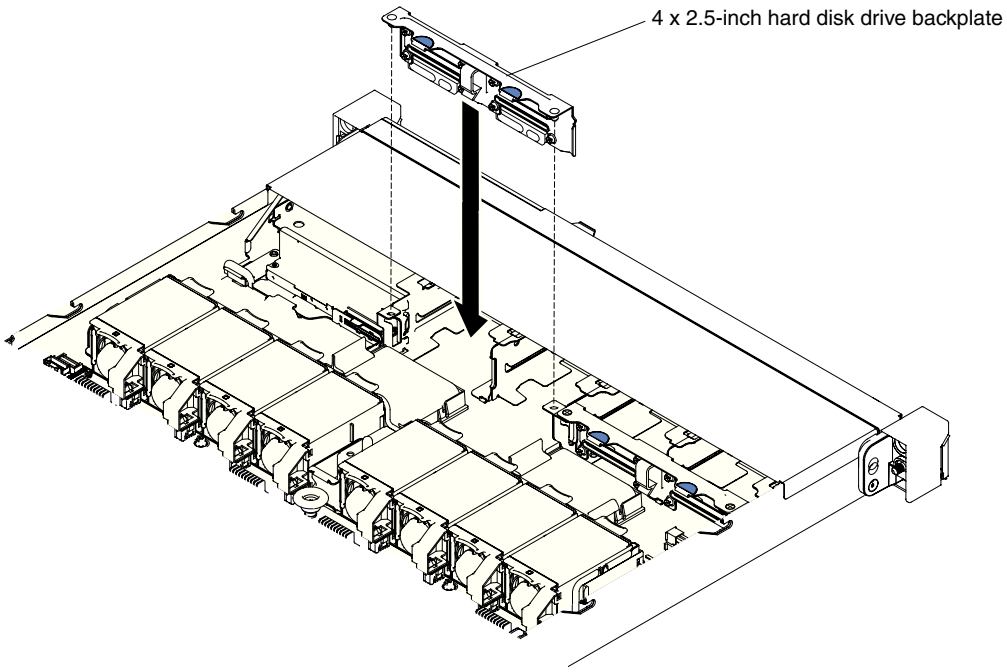


Figure 130. 4 x 3.5-inch simple-swap hard disk drive backplate assembly installation

3. Connect the signal and power cables to the system board. Route the signal cable from the drive backplane along the chassis and connect it to the **SAS/SATA signal connector**. Then, route the power cable from the drive backplate assembly along the chassis and connect it to the **simple-swap SATA power connector**. The following illustration shows the cable routing and connectors for the 2.5-inch and 3.5-inch backplate assemblies.

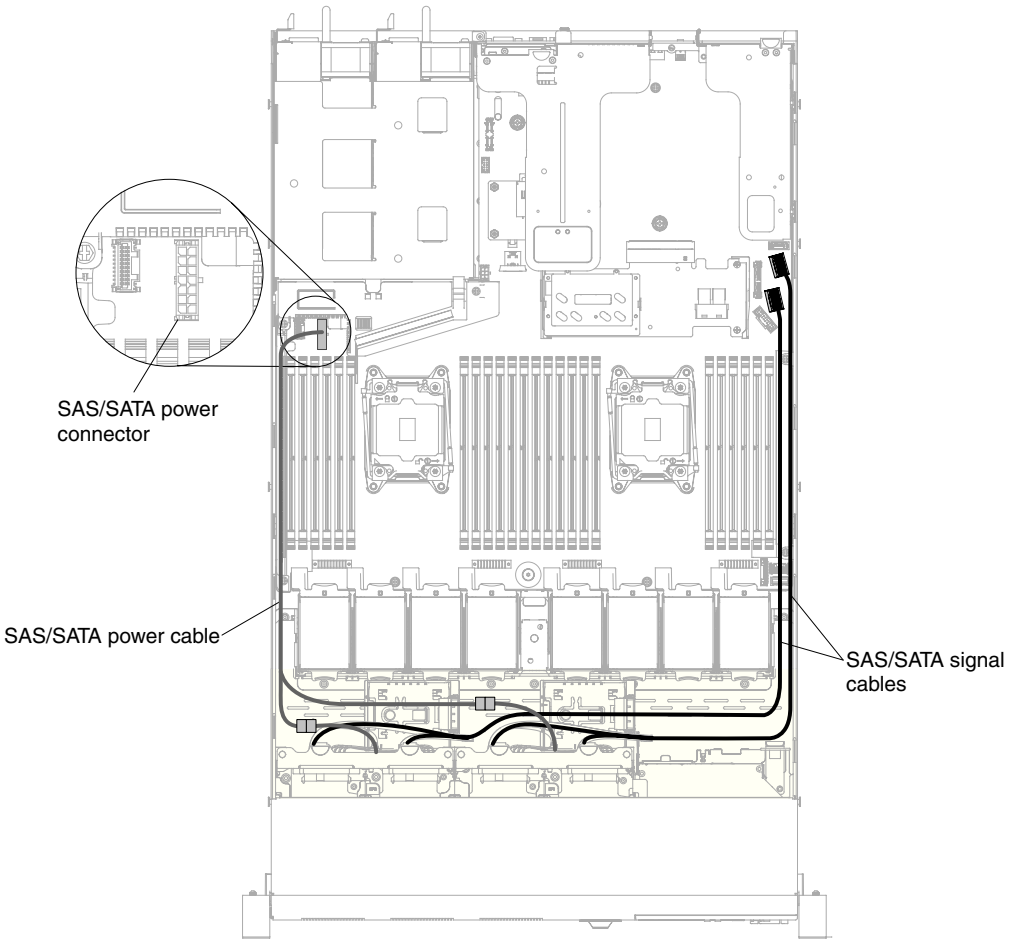


Figure 131. 8 x 2.5-inch simple-swap backplate assembly cable connection

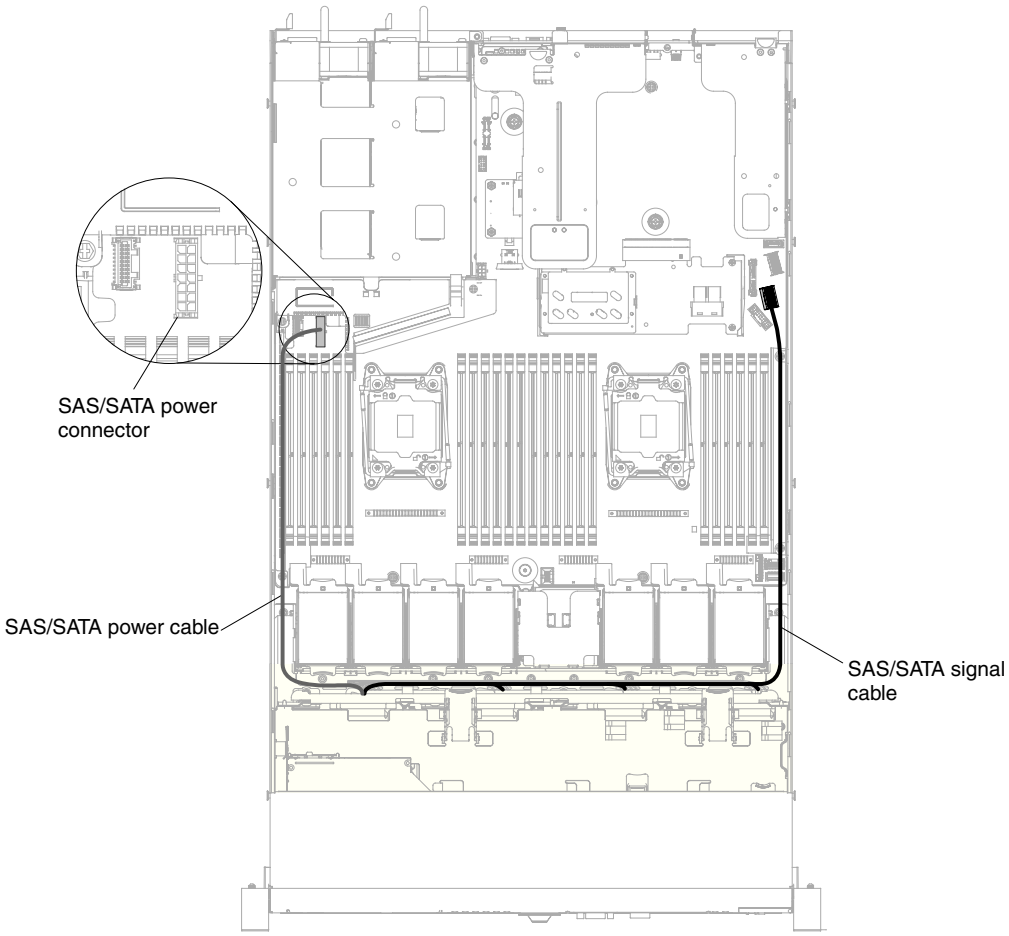


Figure 132. 4 x 3.5-inch simple-swap backplate assembly cable connection

4. Reinstall the hard disk drives and filler panels (see "Replacing simple-swap hard disk drives" on page 146).
5. Reinstall the cover (see "Replacing the cover" on page 127).
6. Slide the server into the rack.
7. Reconnect the power cords and any cables that you removed.
8. Turn on the peripheral devices and the server.

Removing a USB embedded hypervisor flash device

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

About this task

To remove a USB hypervisor flash device, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords.
3. Remove the cover (see "Removing the cover" on page 126).
4. Grasp the flash device and pull to remove it from the connector.

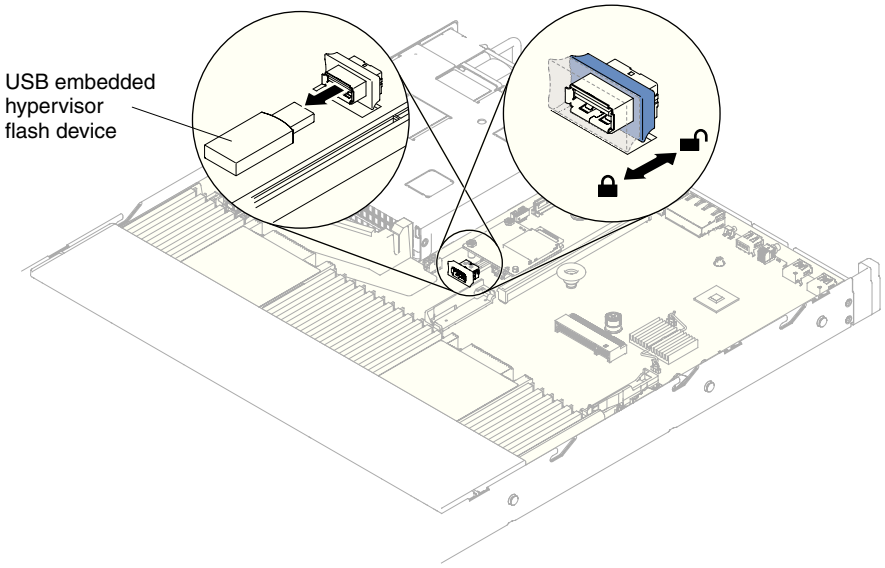


Figure 133. USB hypervisor flash device removal

Results

If you are instructed to return the flash device, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing a USB embedded hypervisor flash device

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

About this task

To install a USB hypervisor flash device, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords.
3. Remove the cover (see "Removing the cover" on page 126).
4. Align the flash device with the connector on the system board and push it into the USB connector until it is firmly seated.

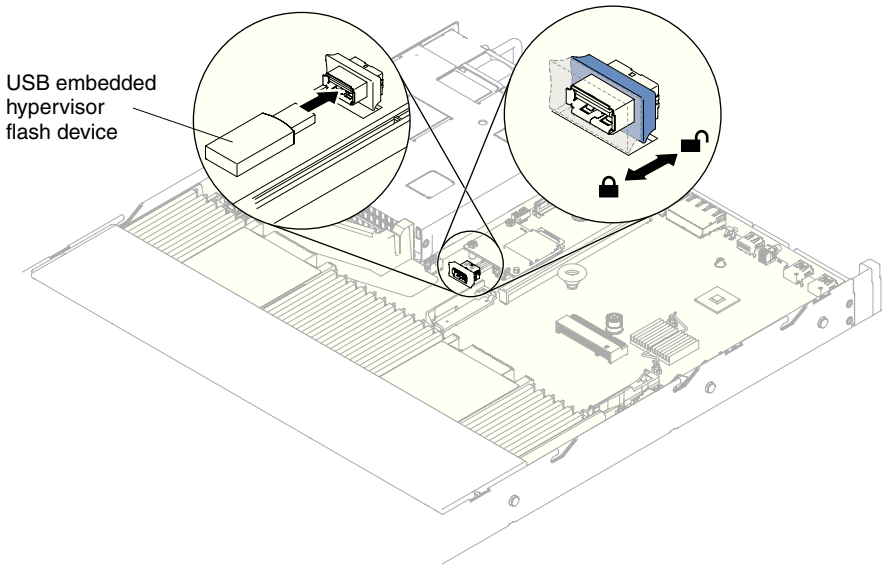


Figure 134. USB hypervisor flash device installation

5. Reconnect the power cords and any cables that you removed.
6. Reinstall the cover (see "Replacing the cover" on page 127).
7. Slide the server into the rack.
8. Turn on the peripheral devices and the server.

Removing the system battery

Use this information to remove the system battery.

About this task

The following notes describe information that you must consider when replacing the battery.

- IBM has designed this product with your safety in mind. The lithium battery must be handled correctly to avoid possible danger. If you replace the battery, you must adhere to the following instructions.

  Note: In the U. S., call 1-800-IBM-4333 for information about battery disposal.
- If you replace the original lithium battery with a heavy-metal battery or a battery with heavy-metal components, be aware of the following environmental consideration. Batteries and accumulators that contain heavy metals must not be disposed of with normal domestic waste. They will be taken back free of charge by the manufacturer, distributor, or representative, to be recycled or disposed of in a proper manner.
- To order replacement batteries, call 1-800-IBM-SERV within the United States, and 1-800-465-7999 or 1-800-465-6666 within Canada. Outside the U.S. and Canada, contact your IBM sales representative or IBM reseller.

  Note: After you replace the battery, you must reconfigure the server and reset the system date and time.

  Statement 2

  CAUTION:
  When replacing the lithium battery, use only IBM 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.

To remove the system battery, complete the following steps:

Procedure

1. Read the safety information that begins on “Safety” on page vii and “Installation guidelines” on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords and all external cables, if necessary.
3. Remove the cover (see “Removing the cover” on page 126).

4. If necessary, lift PCI riser-card assembly 1 or the 2.5-inch hot-swap rear hard disk drive kit out of the chassis (see “Removing a PCI riser-card assembly” on page 170 or “Removing the 2.5-inch hot-swap rear hard disk drive kit” on page 148).
5. Locate the system battery on the system board.

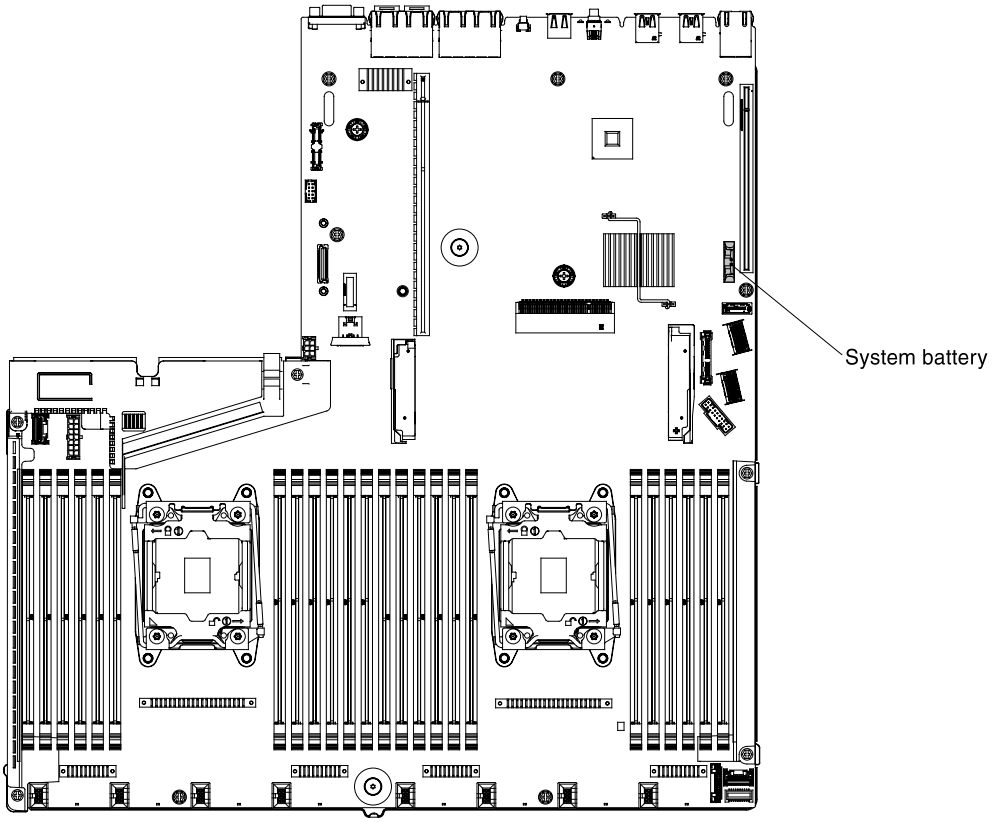


Figure 135. Location of system battery on system board

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.

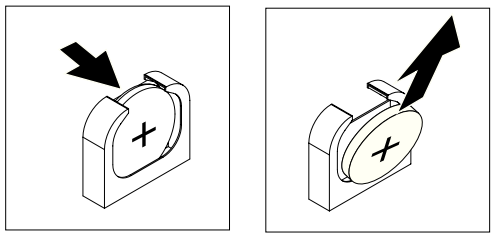


Figure 136. System battery removal

c. Use your thumb and index finger to lift the battery from the socket.

   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.

6. Dispose of the battery as required by local ordinances or regulations. See the *IBM Environmental Notices and User's Guide* on the IBM *Documentation* CD for more information.

Replacing the system battery

Use this information to replace the system battery.

About this task

The following notes describe information that you must consider when replacing the system battery in the server.

- When replacing the system battery, you must replace it 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, contact your IBM sales representative or IBM reseller.
- After you replace the system-board 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 IBM 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.

To install the replacement system battery, complete the following steps:

Procedure

1. Follow any special handling and installation instructions that come with the replacement battery.
2. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
3. Turn off the server and peripheral devices and disconnect the power cords and all external cables, if necessary.
4. Remove the cover (see "Removing the cover" on page 126).

5. If necessary, lift PCI riser-card assembly 1 or the 2.5-inch hot-swap rear hard disk drive kit out of the chassis (see "Removing a PCI riser-card assembly" on page 170 or "Removing the 2.5-inch hot-swap rear hard disk drive kit" on page 148).
6. Locate the system battery connector on the system board.

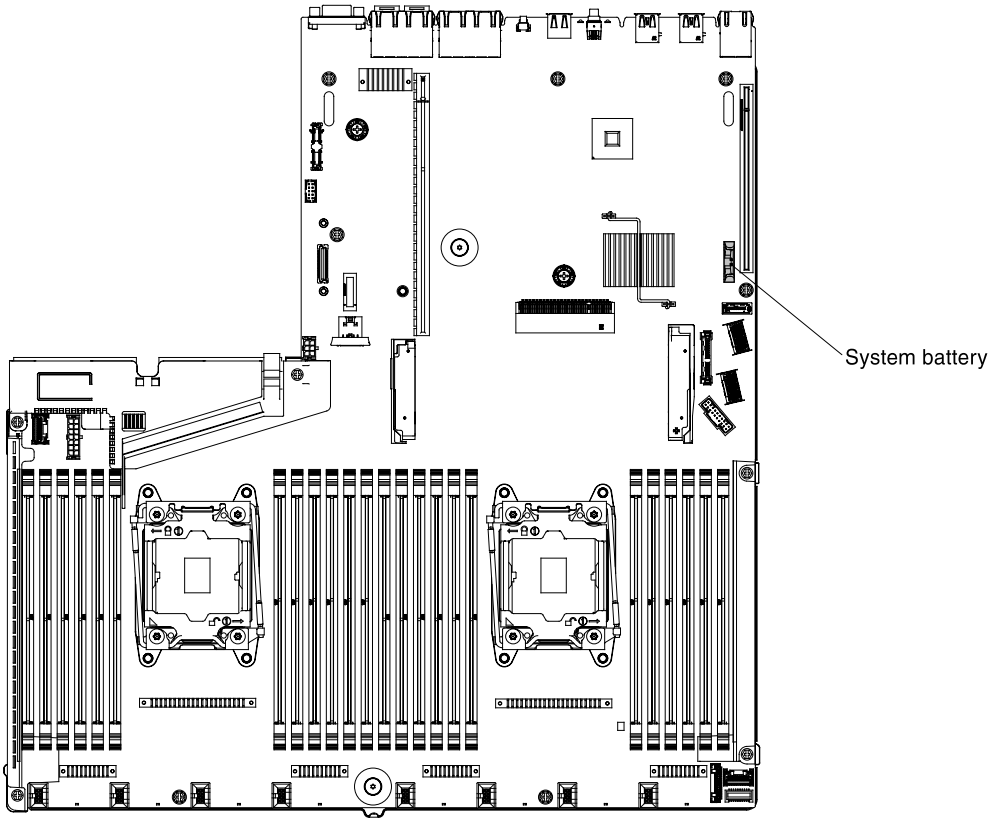


Figure 137. Location of system battery connector on system board

   a. Tilt the battery so that you can insert it into the socket on the side opposite the battery clip.

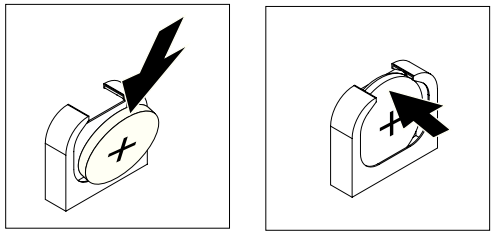


Figure 138. System battery installation

   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.
7. Reinstall PCI riser-card assembly 1 (see "Replacing a PCI riser-card assembly" on page 172 or "Replacing the 2.5-inch hot-swap rear hard disk drive kit" on page 150), if necessary.

8. Reinstall the cover (see "Replacing the cover" on page 127).
9. Slide the server into the rack.
10. Reconnect the external cables; then, reconnect the power cords and turn on the peripheral devices and the server.
11. Start the Setup utility and reset the configuration.
    - Set the system date and time.
    - Set the power-on password.
    - Reconfigure the server.

    See "Using the Setup utility" on page 40 for details.

Removing the media cage

Use this information to remove the media cage.

About this task

To remove the media cage, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect all power cords; then, remove the cover (see "Removing the cover" on page 126).
3. Remove the air baffle (see "Removing the air baffle" on page 129).
4. Disconnect the cables that may be attached to the system board. This may include the DVD drive, front USB connector assembly, front video connector assembly, operator information panel assembly, or LCD operating panel assembly cables. After disconnecting the cables, slightly lift the release latch; then, carefully push the media cage out of the chassis and set it aside.

   Note:
   - Refer to the illustration that applies to your particular server configuration
   - Remember the cable routing before disconnecting the cables from the system board.

   Eight 2.5-inch hot-swap or simple-swap hard disk drive server configuration:

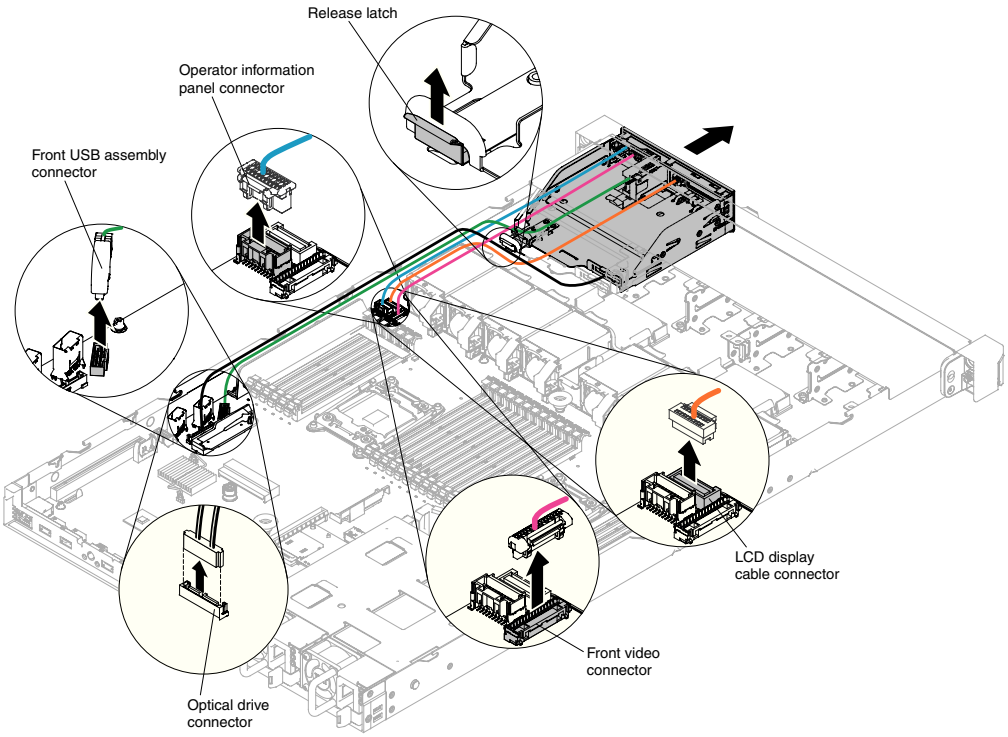


Figure 139. Media cage removal for eight 2.5-inch hot-swap or simple-swap hard disk drive server configuration

Ten 2.5-inch hot-swap hard disk drive server configuration:

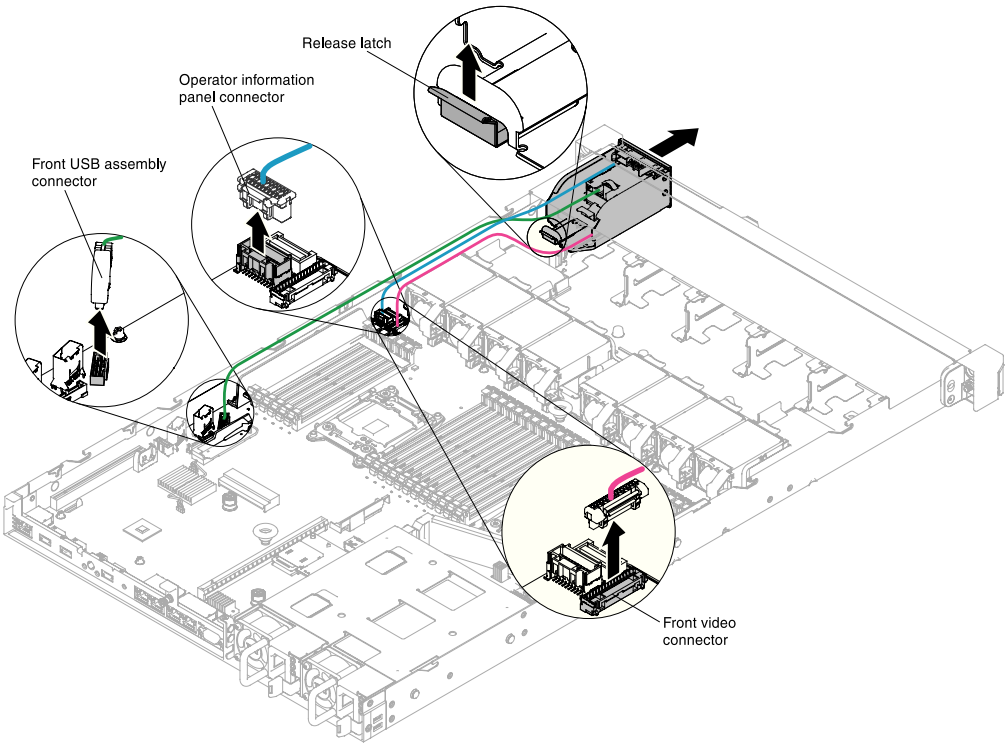


Figure 140. Media cage removal for ten 2.5-inch hot-swap hard disk drive server configuration

Four 3.5-inch hot-swap or simple-swap hard disk drive server configuration:

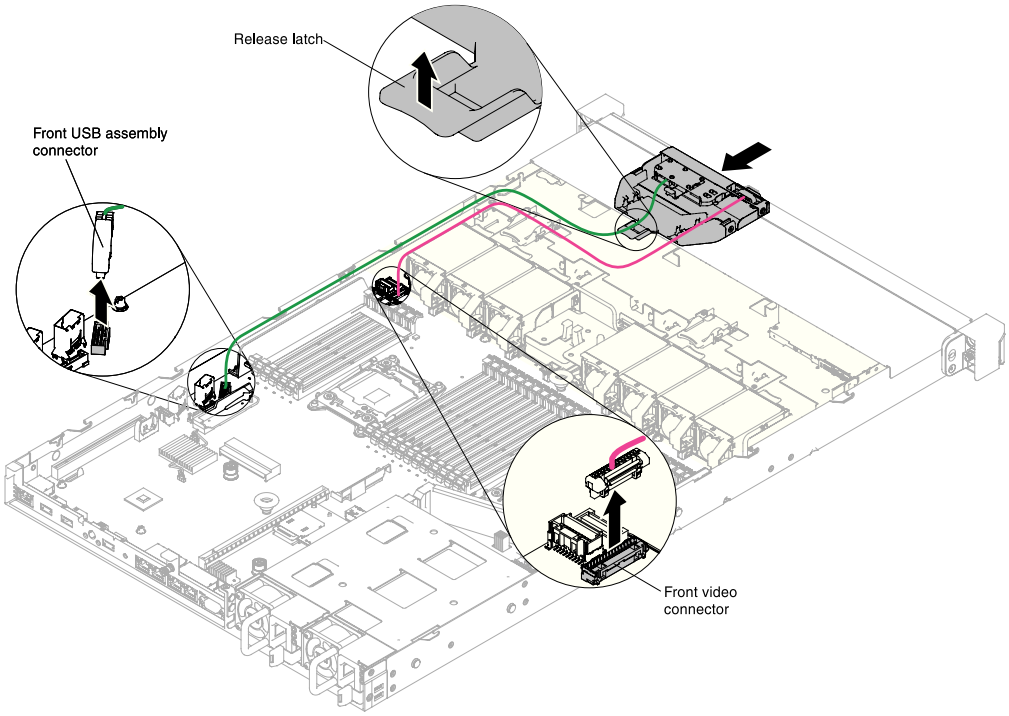


Figure 141. Media cage removal for four 3.5-inch hot-swap or simple-swap hard disk drive server configuration

5. If you are instructed to return the media cage, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing the media cage

Use this information to replace the media cage.

About this task

To install the media cage, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Carefully push the media cage back into the server; then reconnect the cables that were removed from the system board. This may include the DVD drive, front USB connector assembly, front video connector assembly, operator information panel assembly, or LCD operating panel assembly cables. Remember to insert the cables into the relevant cable clips and cable tie.

   Note:

   - Refer to the illustration that applies to your particular server configuration
   - Remember the cable routing before disconnecting the cables from the system board.

   Eight 2.5-inch hot-swap or simple-swap hard disk drive server configuration:

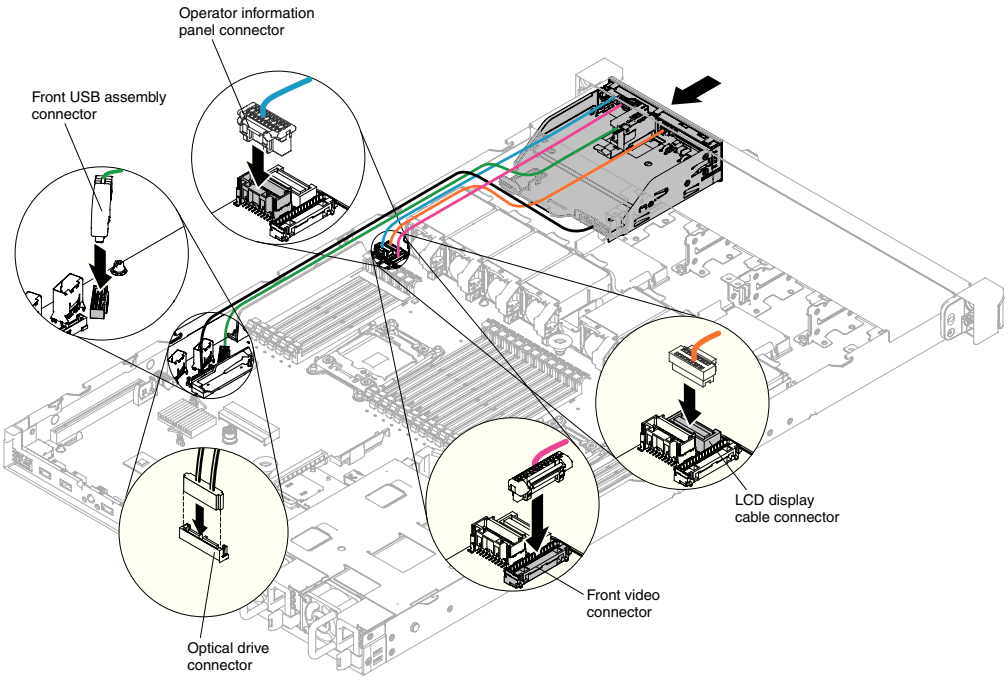


Figure 142. Media cage installation for eight 2.5-inch hot-swap or simple-swap hard disk drive server configuration

Ten 2.5-inch hot-swap hard disk drive server configuration:

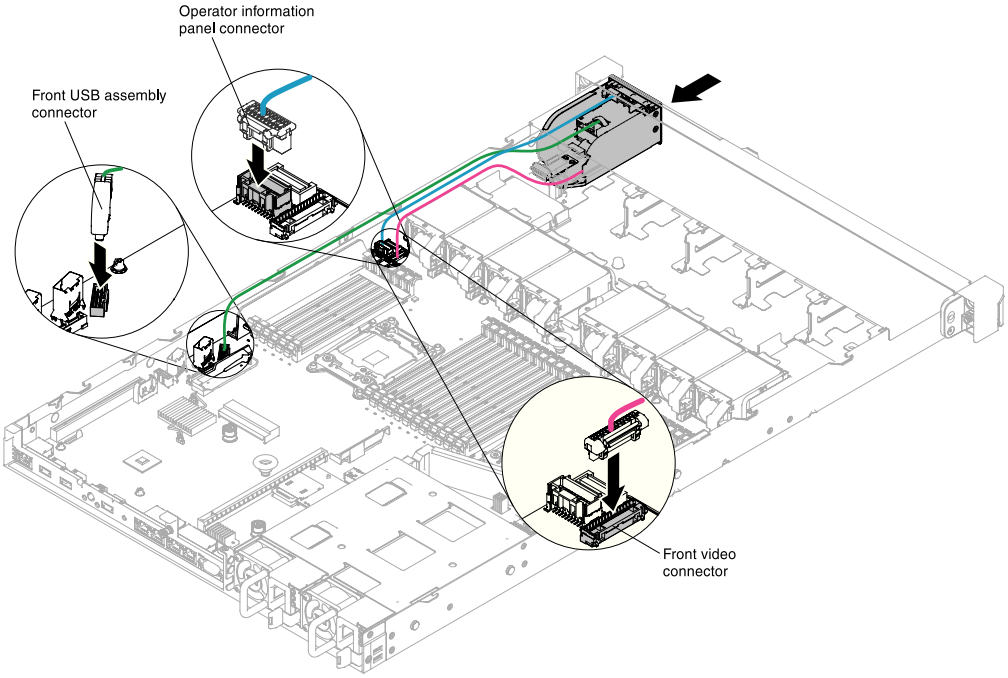


Figure 143. Media cage installation for ten 2.5-inch hot-swap hard disk drive server configuration

Four 3.5-inch hot-swap or simple-swap hard disk drive server configuration:

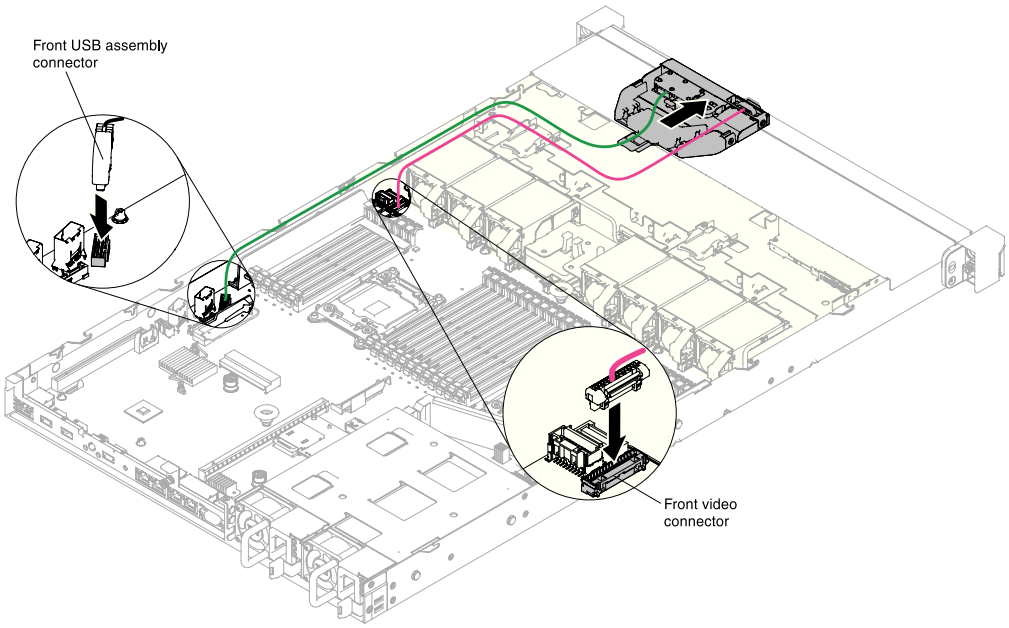


Figure 144. Media cage installation for four 3.5-inch hot-swap or simple-swap hard disk drive server configuration

3. Reinstall the air baffle (see "Replacing the air baffle" on page 129).
4. Reinstall the cover (see "Replacing the cover" on page 127).
5. Slide the server into the rack.
6. Reconnect the power cords and any cables that you removed.
7. Turn on the peripheral devices and the server.

Removing the front USB connector assembly

Use this information to remove the front USB connector assembly.

About this task

To remove the front USB connector assembly, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect all power cords; then, remove the cover (see "Removing the cover" on page 126).
3. Remove the media cage (see "Removing the media cage" on page 222).
4. Remove the front USB connector assembly from the media cage.

   Note:

   - Refer to the illustration that applies to your particular server configuration.
   - The eight 2.5-inch and four 3.5-inch hot-swap or simple-swap hard disk drive server configuration supports three USB connectors. The ten 2.5-inch hot-swap hard disk drive server configuration supports only two USB connectors.

   Eight 2.5-inch hot-swap or simple-swap hard disk drive server configuration:

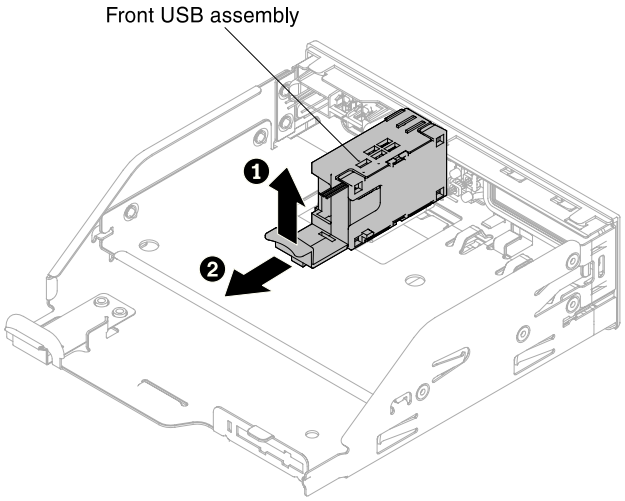


Figure 145. Front USB connector assembly removal for eight 2.5-inch hot-swap or simple-swap hard disk drive server configuration

Ten 2.5-inch hot-swap hard disk drive server configuration:

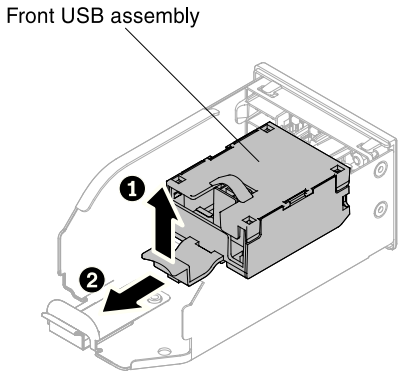


Figure 146. Front USB connector assembly removal for ten 2.5-inch hot-swap hard disk drive server configuration

Four 3.5-inch hot-swap or simple-swap hard disk drive server configuration:

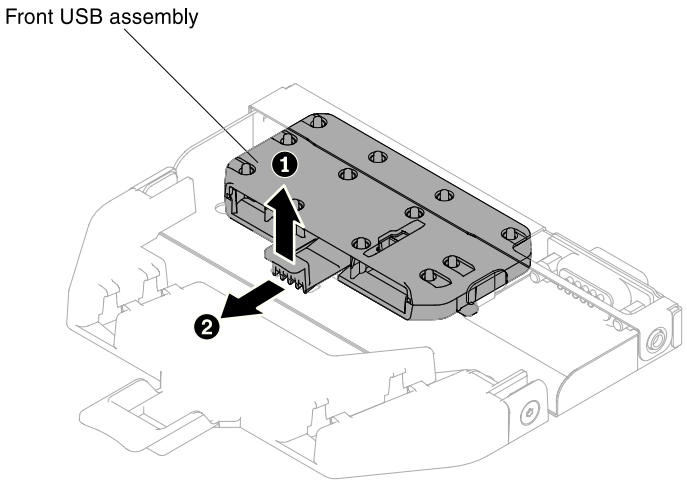


Figure 147. Front USB connector assembly removal for four 3.5-inch hot-swap or simple-swap hard disk drive server configuration

5. If you are instructed to return the front USB connector assembly, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing the front USB connector assembly

Use this information to replace the front USB connector assembly.

About this task

To install the front USB connector assembly, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Insert the front USB connector assembly into the media cage.

   Note: Refer to the illustration that applies to your particular server configuration.

   Eight 2.5-inch hot-swap or simple-swap hard disk drive server configuration:

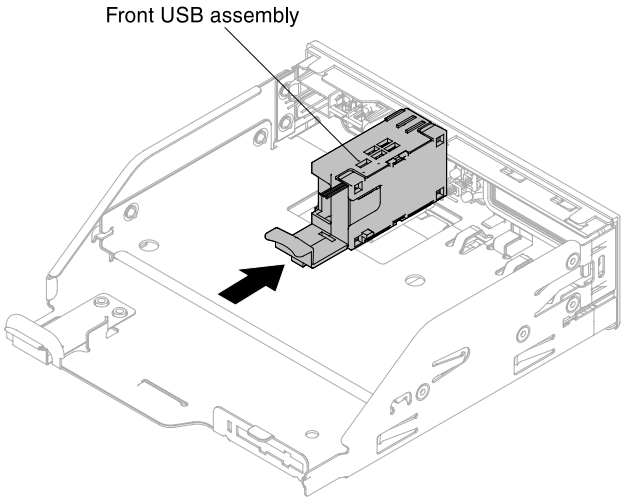


Figure 148. Front USB connector assembly installation for eight 2.5-inch hot-swap or simple-swap hard disk drive server configuration

Ten 2.5-inch hot-swap hard disk drive server configuration:

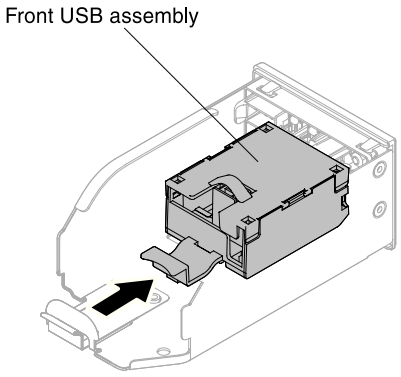


Figure 149. Front USB connector assembly installation for ten 2.5-inch hot-swap hard disk drive server configuration

Four 3.5-inch hot-swap or simple-swap hard disk drive server configuration:

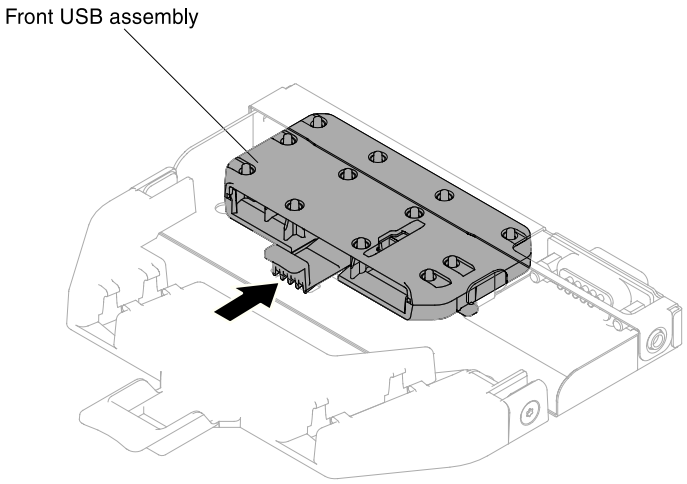


Figure 150. Front USB connector assembly installation for four 3.5-inch hot-swap or simple-swap hard disk drive server configuration

3. Carefully push the media cage back into the chassis (see "Replacing the media cage" on page 224). Remember to reconnect the cables that were removed from the system board.
4. Reinstall the cover (see "Replacing the cover" on page 127).
5. Reconnect the power cords and any cables that you removed.
6. Slide the server into the rack.
7. Turn on the peripheral devices and the server.

Removing the front video connector assembly

Use this information to remove the front video connector assembly.

About this task

To remove the front video connector assembly, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords and all external cables, if necessary.
3. Remove the cover (see "Removing the cover" on page 126).
4. Remove the media cage (see "Removing the media cage" on page 222).
5. Loosen the screws that secure the front video connector assembly to the media cage; then, remove the assembly from the media cage.

   Note: Refer to the illustration that applies to your particular server configuration.

   Eight 2.5-inch hot-swap or simple-swap hard disk drive server configuration:

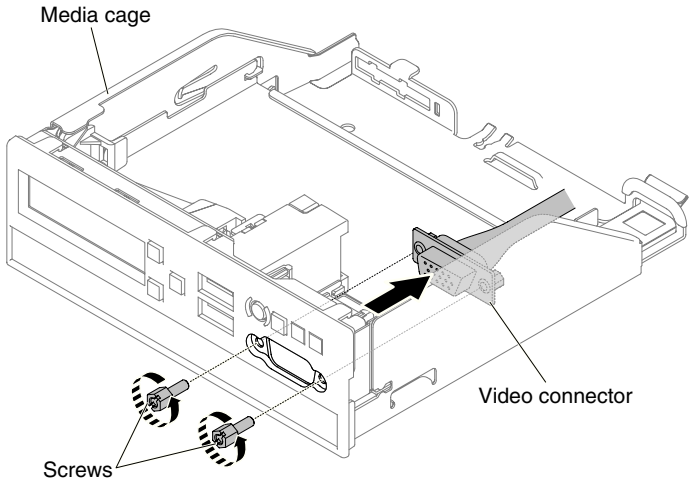


Figure 151. Front video connector assembly removal for eight 2.5-inch hot-swap or simple-swap hard disk drive server configuration

Ten 2.5-inch hot-swap hard disk drive server configuration:

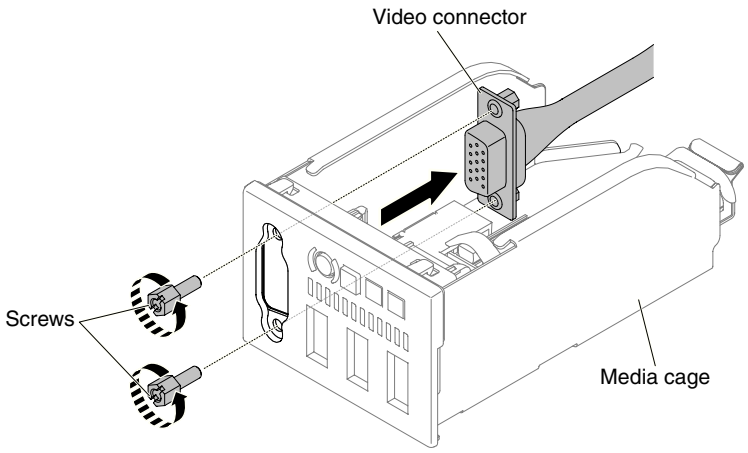


Figure 152. Front video connector assembly removal for ten 2.5-inch hot-swap hard disk drive server configuration

Four 3.5-inch hot-swap or simple-swap hard disk drive server configuration:

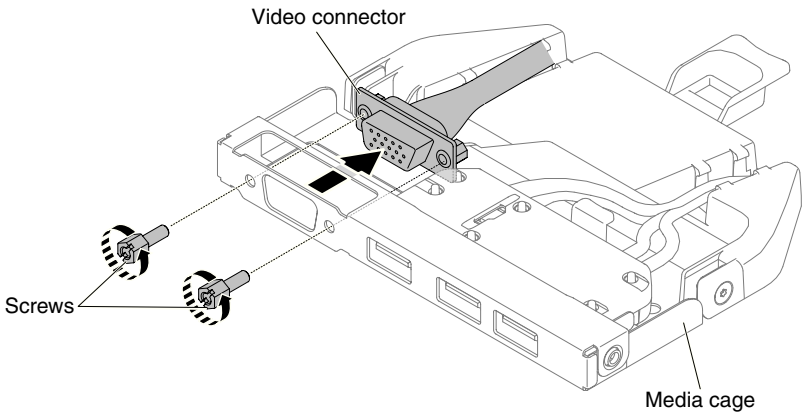


Figure 153. Front video connector assembly removal for four 3.5-inch hot-swap or simple-swap hard disk drive server configuration

6. If you are instructed to return the front video connector assembly, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing the front video connector assembly

Use this information to replace the front video connector assembly.

About this task

To install the front video connector assembly, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. From inside the media cage, insert the front video connector assembly into the holes on the cage; then, install the screws to secure the assembly to the cage.

   Note: Refer to the illustration that applies to your particular server configuration.

   Eight 2.5-inch hot-swap or simple-swap hard disk drive server configuration:

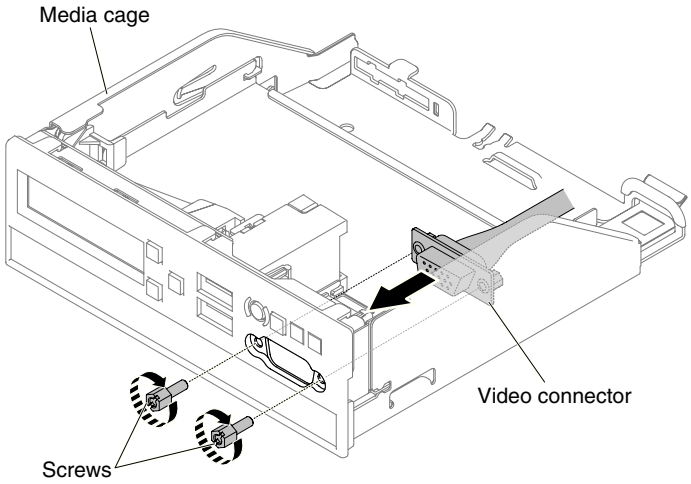


Figure 154. Front video connector assembly installation for eight 2.5-inch hot-swap or simple-swap hard disk drive server configuration

Ten 2.5-inch hot-swap hard disk drive server configuration:

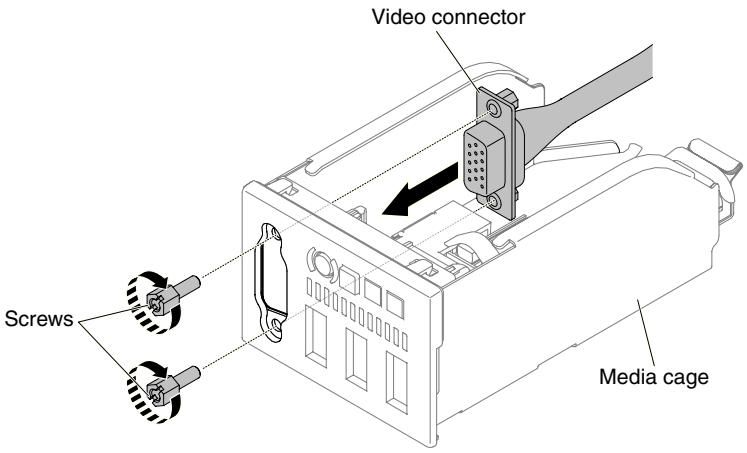


Figure 155. Front video connector assembly installation for ten 2.5-inch hot-swap hard disk drive server configuration

Four 3.5-inch hot-swap or simple-swap hard disk drive server configuration:

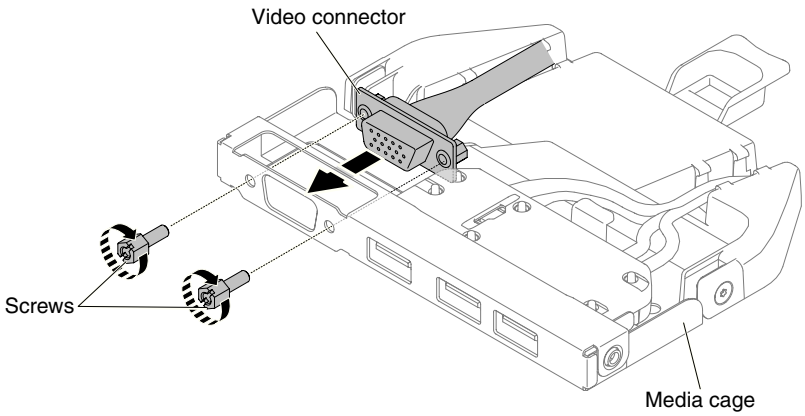


Figure 156. Front video connector assembly installation for four 3.5-inch hot-swap or simple-swap hard disk drive server configuration

3. Carefully push the media cage back into the chassis (see "Replacing the media cage" on page 224). Remember to reconnect the cables that were removed from the system board.
4. Reinstall the cover (see "Replacing the cover" on page 127).
5. Slide the server into the rack.
6. Reconnect the power cords and any cables that you removed.
7. Turn on the peripheral devices and the server.

Removing the operator information panel assembly

Use this information to remove the operator information panel assembly.

About this task

To remove the operator information panel assembly, complete the following steps.

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect all power cords; then, remove the cover (see "Removing the cover" on page 126).
3. For the eight 2.5-inch hot-swap or simple-swap and ten 2.5-inch hot-swap hard disk drive server configuration, remove the media cage (see "Removing the media cage" on page 222). For the four 3.5-inch hot-swap or simple-swap hard disk drive server configuration, disconnect the operator information panel assembly cable from the system board; then, remove the assembly from the chassis. See the following illustration when you have this particular server model.

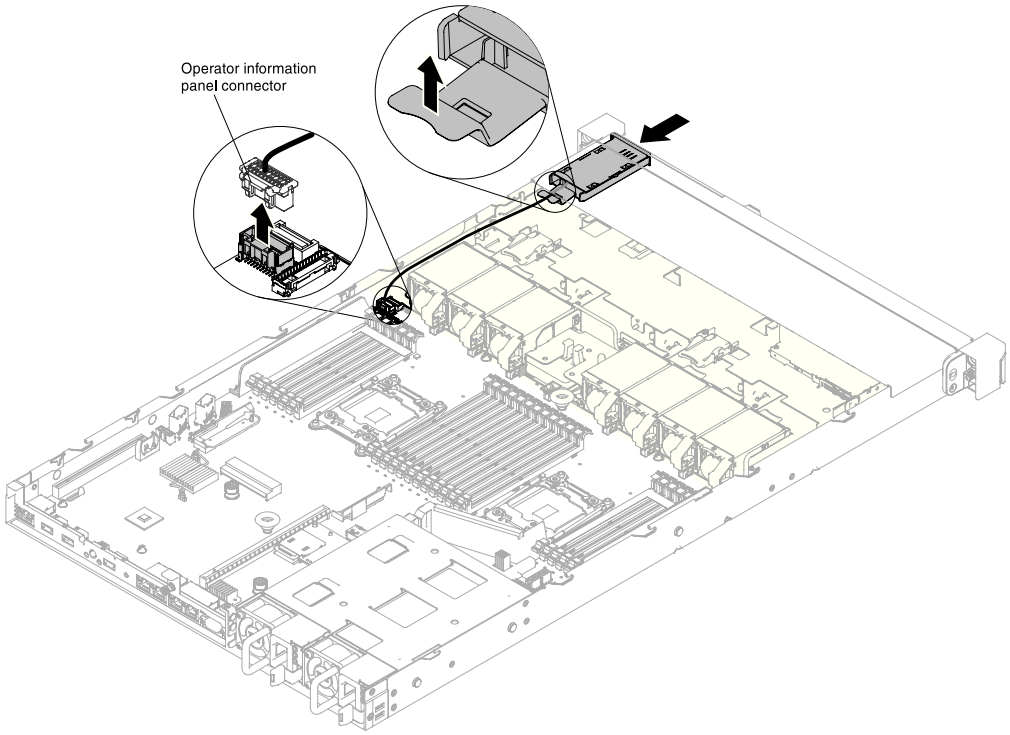


Figure 157. Operator information panel assembly removal for four 3.5-inch hot-swap or simple-swap hard disk drive server configuration

4. Disconnect the cable from the back of the operator information panel assembly. This step applies to all types of server configurations.
5. For the eight 2.5-inch hot-swap or simple-swap and ten 2.5-inch hot-swap hard disk drive server configuration, remove the operator information panel assembly from the media cage.

   Note: Refer to the illustration that applies to your particular server configuration.

   Eight 2.5-inch hot-swap or simple-swap hard disk drive server configuration:

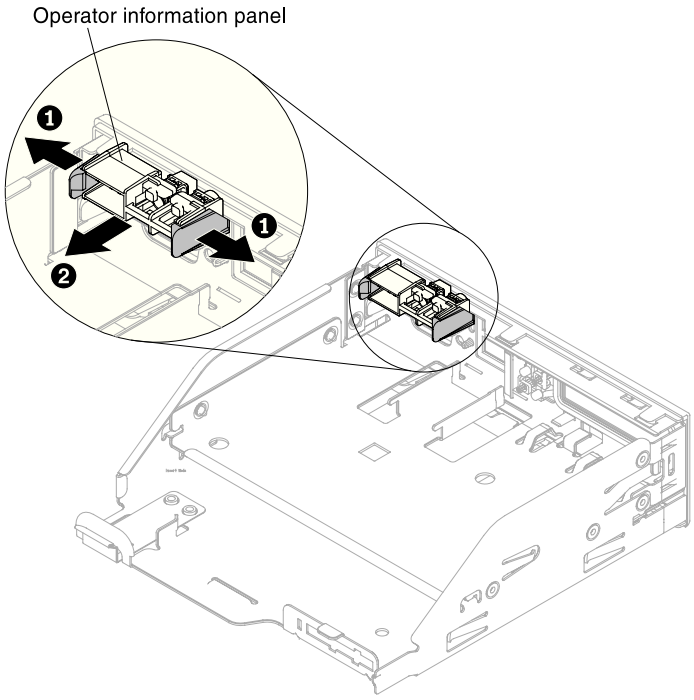


Figure 158. Operator information panel assembly removal from media cage for eight 2.5-inch hot-swap or simple-swap hard disk drive server configuration

Ten 2.5-inch hot-swap hard disk drive server configuration:

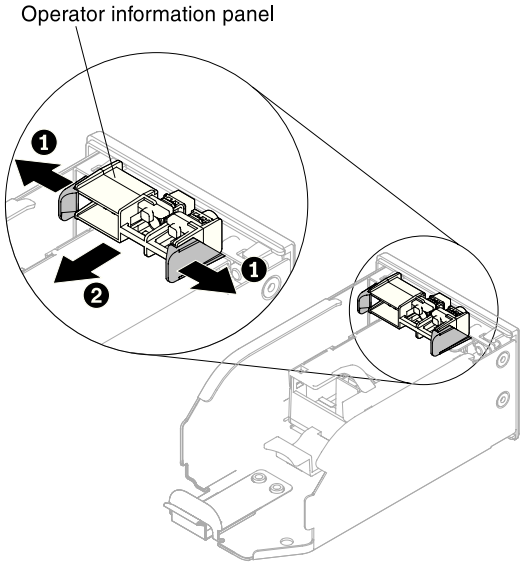


Figure 159. Operator information panel assembly removal from media cage for ten 2.5-inch hot-swap hard disk drive server configuration

6. If you are instructed to return the operator information panel assembly, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing the operator information panel assembly

Use this information to replace the operator information panel assembly.

About this task

To install the operator information panel, complete the following steps.

Procedure

1. Read the safety information that begins on “Safety” on page vii and “Installation guidelines” on page 122.
2. For the eight 2.5-inch hot-swap or simple-swap and ten 2.5-inch hot-swap hard disk drive server configuration, install the operator information panel assembly into the media cage. For the four 3.5-inch" hot-swap or simple-swap hard disk drive server configuration, go to step 4.

   Note: Refer to the illustration that applies to your particular server configuration.

   Eight 2.5-inch hot-swap or simple-swap hard disk drive server configuration:

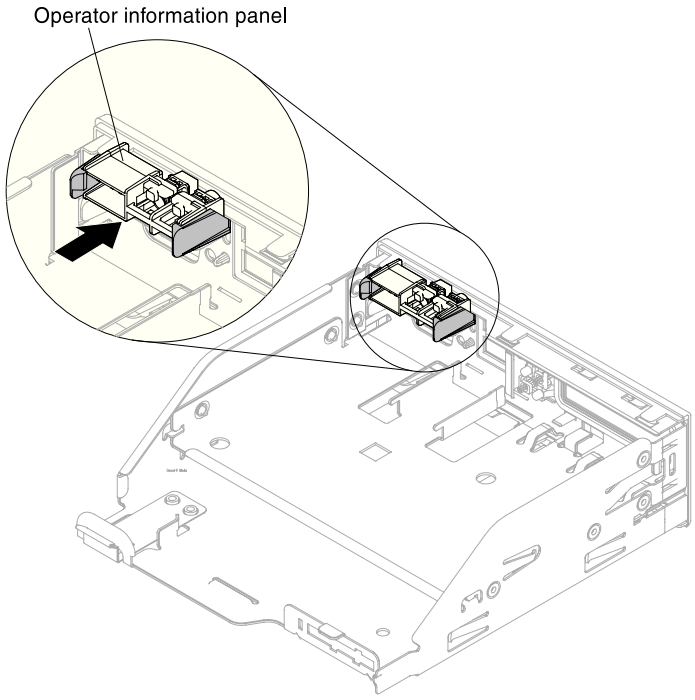


Figure 160. Operator information panel assembly installation into media cage for eight 2.5-inch hot-swap or simple-swap hard disk drive server configuration

Ten 2.5-inch hot-swap hard disk drive server configuration:

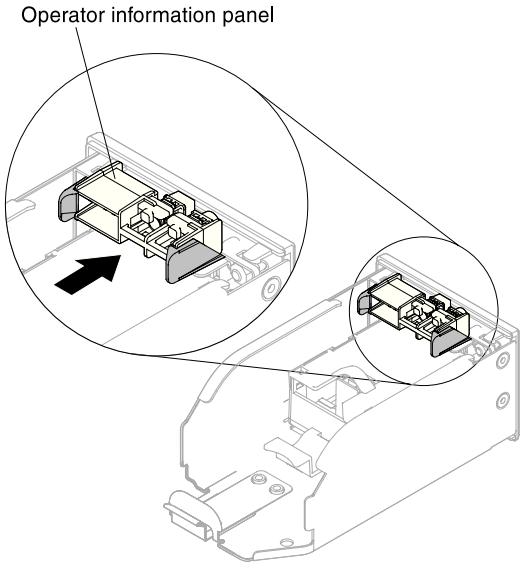


Figure 161. Operator information panel assembly installation into media cage for ten 2.5-inch hot-swap hard disk drive server configuration

3. Carefully push the media cage back into the chassis (see "Replacing the media cage" on page 224). Remember to reconnect the cables that were removed from the system board.
4. For the four 3.5-inch hot-swap or simple-swap hard disk drive server configuration, slide the operator information panel into the chassis from the inside the server; then, reconnect the operator information panel assembly cable to the system board.

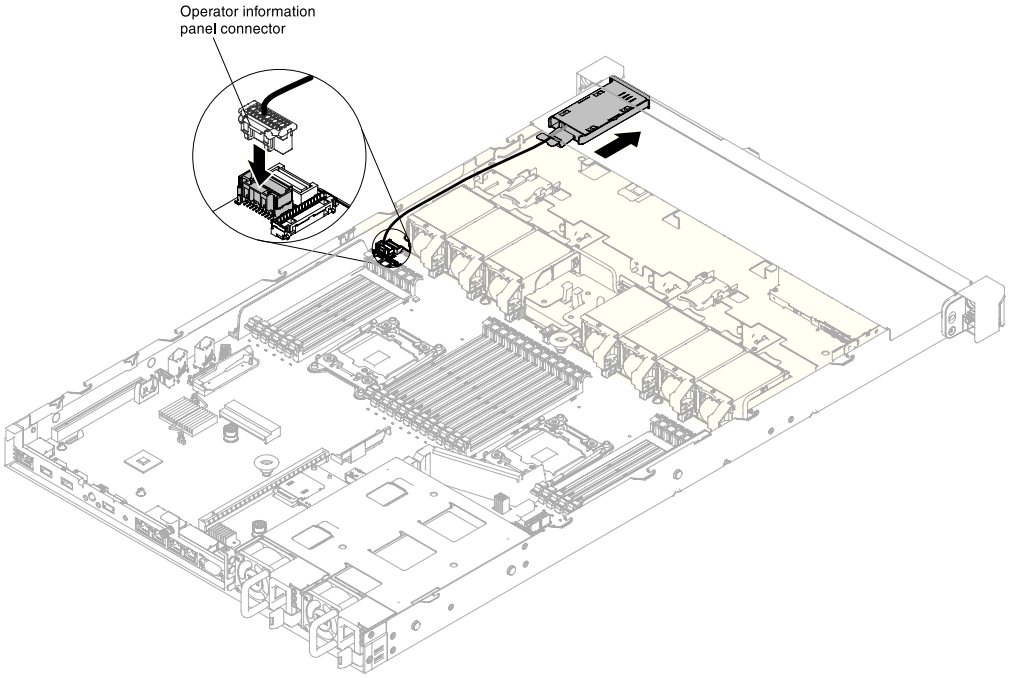


Figure 162. Operator information panel assembly installation for four 3.5-inch hot-swap or simple-swap hard disk drive server configuration

5. Reconnect the operator information panel assembly cable to the operator information panel assembly. This step applies to all types of server configurations.
6. Reinstall the cover (see “Replacing the cover” on page 127).
7. Slide the server into the rack.
8. Reconnect the power cords and any cables that you removed.
9. Turn on the peripheral devices and the server.

Removing the LCD system information display panel

Use this information to remove the LCD system information display panel.

About this task

To remove the LCD system information display panel, complete the following steps.

Note: The LCD system information display panel is available only in the ten 2.5-inch hot-swap hard disk drive server configuration.

Procedure

1. Read the safety information that begins on “Safety” on page vii and “Installation guidelines” on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords and all external cables, if necessary.
3. Remove the cover (see “Removing the cover” on page 126).
4. Remove the media cage (see “Removing the media cage” on page 222).
5. Disconnect the cable from the back of the LCD system information display panel.
6. Pull the tab on the LCD retention latch to the left to disengage the LCD system information display panel; then carefully remove the assembly.

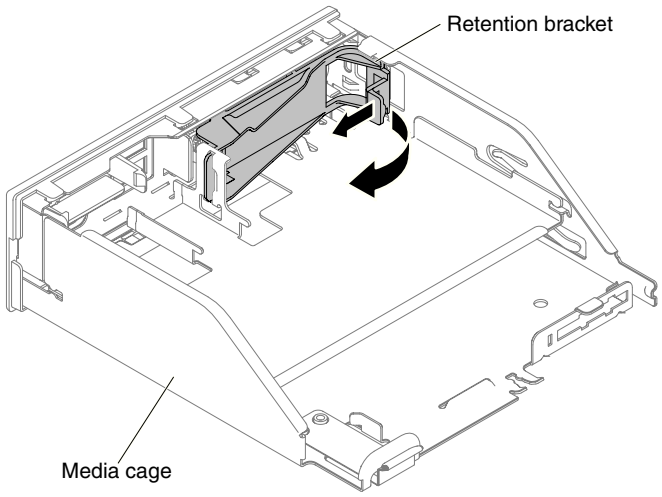


Figure 163. LCD system information display panel removal

7. If you are instructed to return the LCD system information display panel, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing the LCD system information display panel

Use this information to replace the LCD system information display panel.

About this task

To install the LCD system information display panel, complete the following steps.

Note: The LCD system information display panel is available only in the ten 2.5-inch hot-swap hard disk drive server configuration.

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords and all external cables, if necessary.
3. From inside the media cage, align the LCD system information display panel with the alignment pin on the left side of the cage; then, carefully push the panel until it clicks in place with the LCD retention latch.

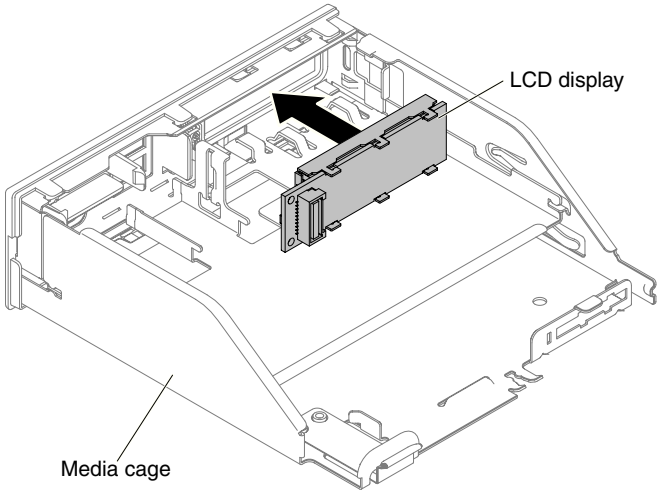


Figure 164. LCD system information display panel installation (1)

4. Connect the LCD system information display panel cable to the back of the LCD system information display panel.
5. Carefully push the media cage back into the chassis (see "Replacing the media cage" on page 224). Remember to reconnect the cables that were removed from the system board.
6. Reinstall the cover (see "Replacing the cover" on page 127).
7. Slide the server into the rack.
8. Reconnect the power cords and any cables that you removed.
9. Turn on the peripheral devices and the server.

Removing the COM port bracket

Use this information to remove the COM port bracket.

About this task

To remove the COM port bracket, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords and all external cables, if necessary.
3. Remove the cover (see "Removing the cover" on page 126).
4. Disconnect the COM port bracket cable from the system board.

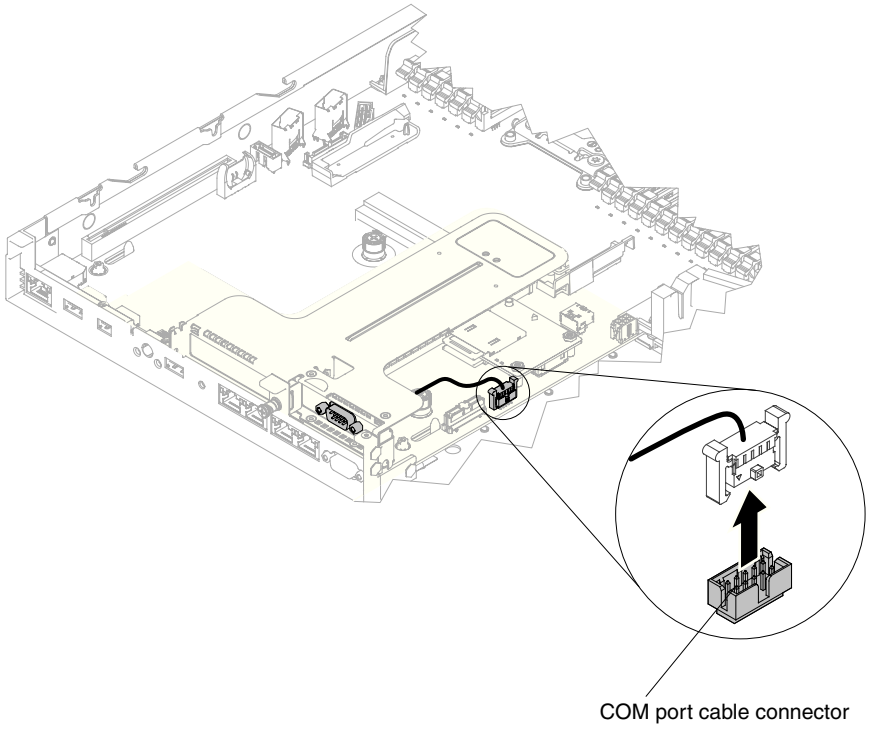


Figure 165. Disconnecting COM port bracket cable from system board

5. Loosen the screws; then remove the COM port bracket connector from the opening of PCIe riser 2 assembly.

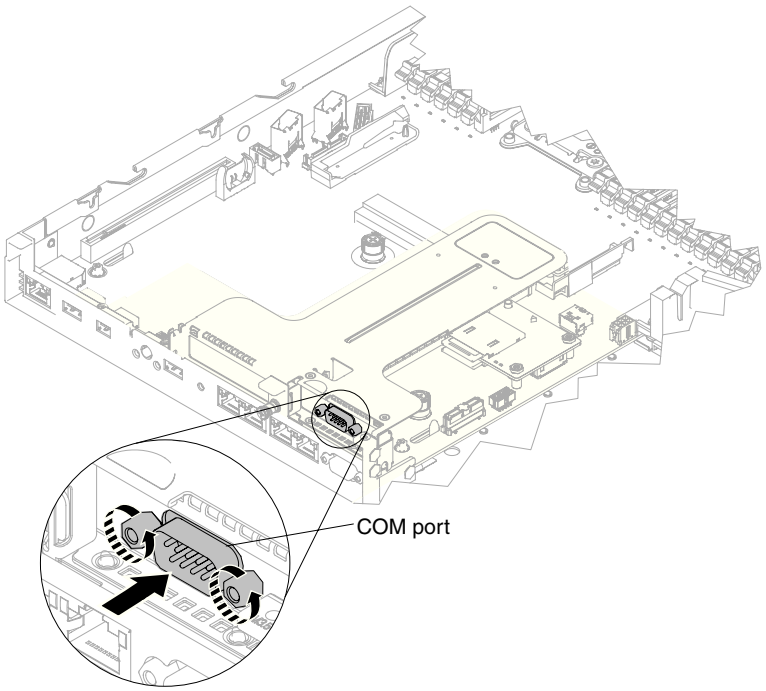


Figure 166. COM port bracket connector insertion into PCIe riser 2 assembly

Note: For some it may be easier to remove the COM port bracket by first slightly removing PCIe riser 2 assembly from the system board

6. If you are instructed to return the COM port bracket, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing the COM port bracket

Use this information to replace the COM port bracket.

About this task

To install the COM port bracket, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect the power cords and all external cables.
3. If necessary remove PCIe riser 2 assembly from the system board (see "Removing a PCI riser-card assembly" on page 170).
4. Remove the expansion slot cover from the PCIe riser 2 assembly if one is present; then, install the COM port expansion slot cover onto the assembly.

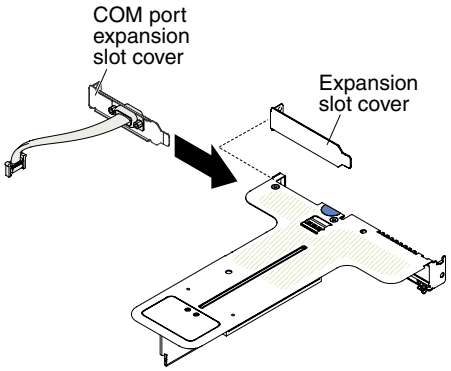


Figure 167. COM port expansion slot cover installation

5. Insert PCIe riser 2 assembly onto the system board (see "Replacing a PCI riser-card assembly" on page 172).
6. Insert the COM port bracket connector into the opening of PCIe riser 2 assembly from inside the server; then tighten the screws.

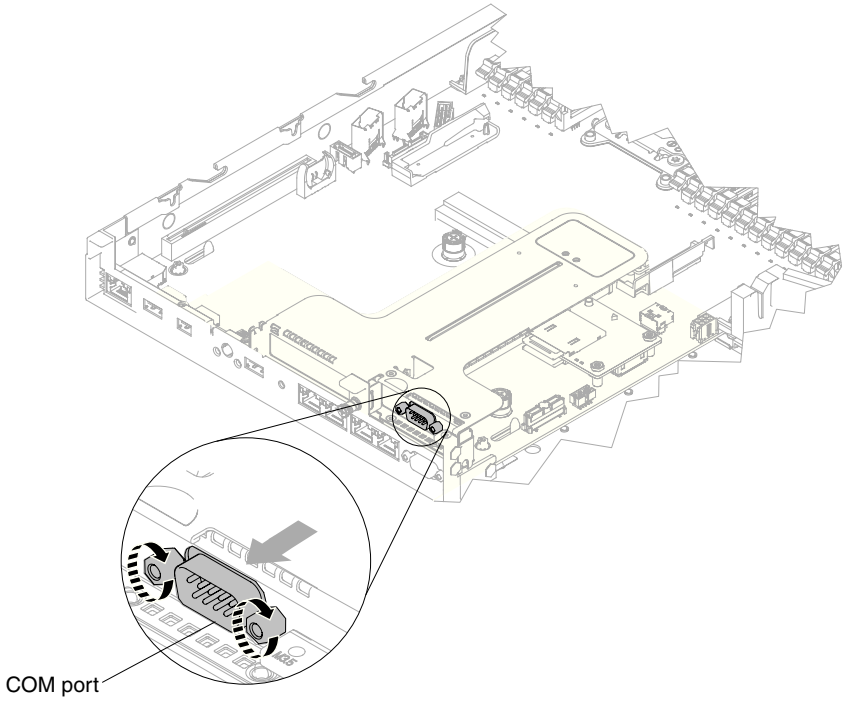


Figure 168. COM port bracket connector insertion into PCIe riser 2 assembly

7. Connect the COM port bracket cable to the system board.

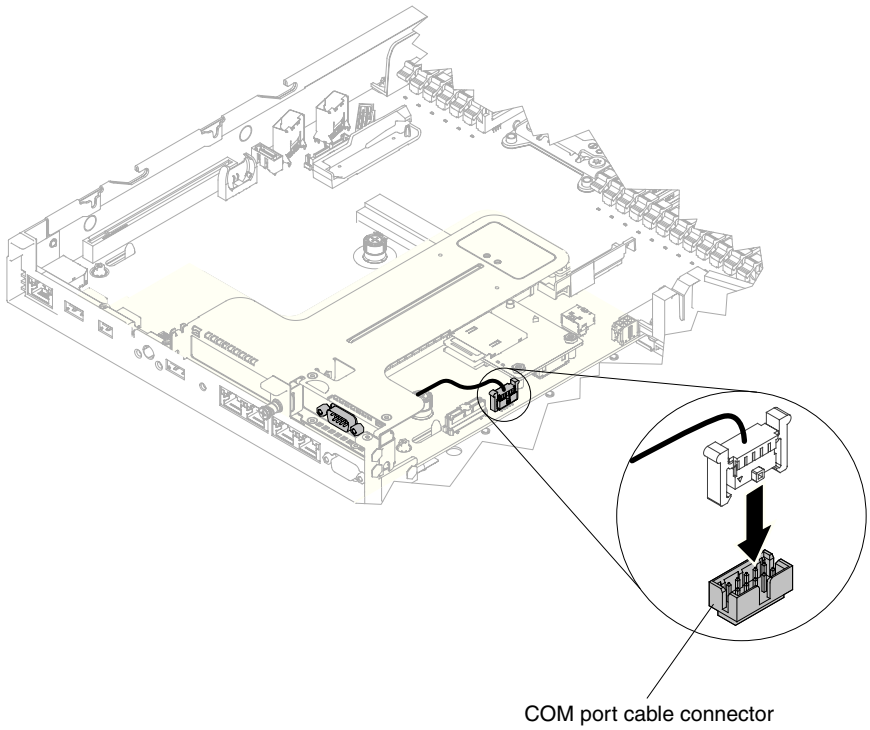


Figure 169. COM port bracket cable routing

8. Reinstall the cover (see "Replacing the cover" on page 127).
9. Slide the server into the rack.
10. Reconnect the power cords and any cables that you removed.
11. Turn on the peripheral devices and the server.

Removing the security bezel

Use this information to remove the security bezel.

About this task

Note: Installation of the security bezel is to limit access for increased security.

To remove the security bezel, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. If necessary, turn off the server and peripheral devices and disconnect the power cords and all external cables.
3. Use the key to unlock the security bezel to the open position.

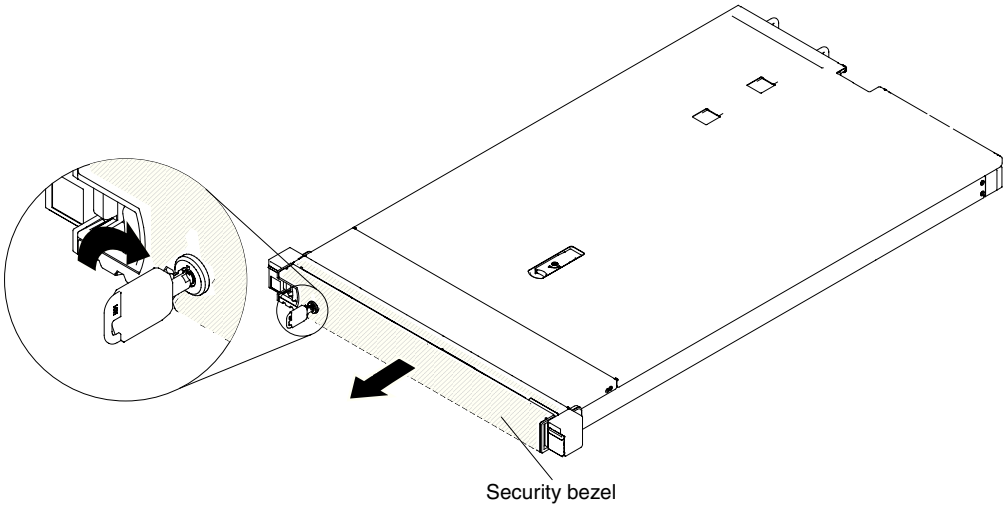


Figure 170. Unlocking the security bezel

4. Press the release latch and rotate the security bezel away from the chassis.

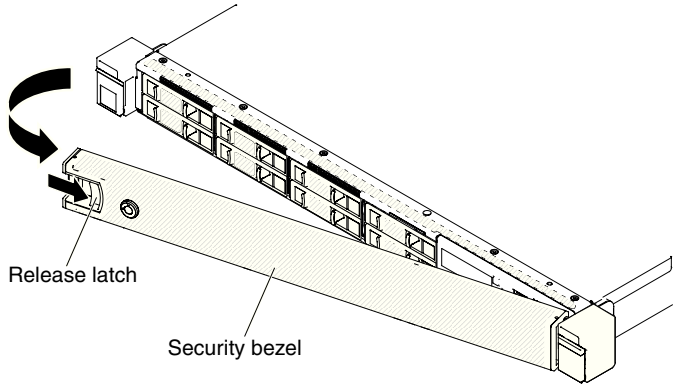


Figure 171. Security bezel removal

5. If you are instructed to return the security bezel, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing the security bezel

Use this information to replace the security bezel.

About this task

Note: Installation of the security bezel is to limit access for increased security.

To replace the security bezel, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. If necessary, turn off the server and peripheral devices and disconnect the power cords and all external cables.
3. Carefully insert the two tabs on the security bezel into the slots along the right side of the chassis.
4. Press the release latch and rotate the security bezel until the other side clicks into place on the chassis.

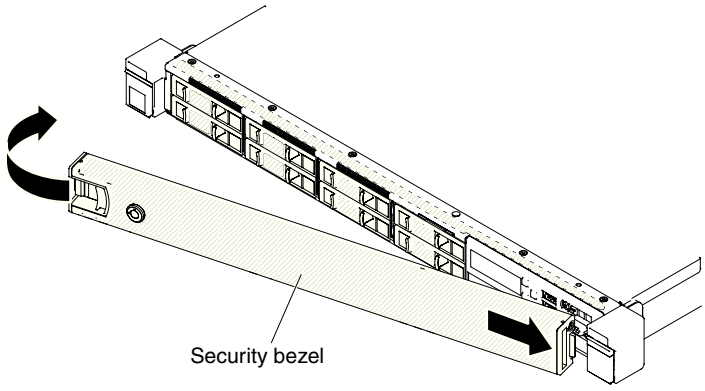


Figure 172. Security bezel installation

5. Use the key to lock the security bezel to the closed position.

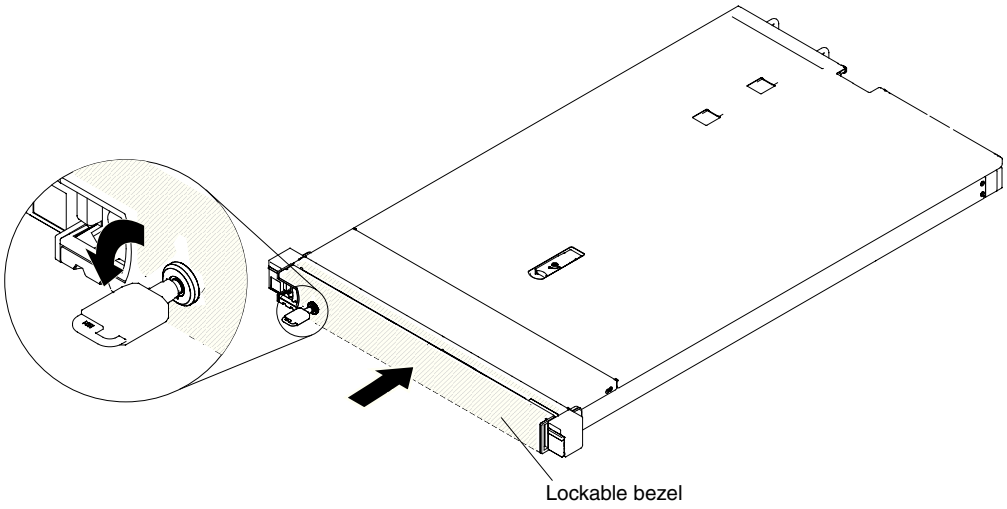


Figure 173. Locking the security bezel

6. Reconnect the power cords and any cables that you may have removed.
7. Turn on the peripheral devices and the server.

Removing and replacing Tier 2 CRUs

You may install a Tier 2 CRU yourself or request IBM 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 a microprocessor and heat sink

Use this information to remove a microprocessor and heat sink.

About this task

- Microprocessors are to be removed only by trained technicians.

  Important: Always use the microprocessor installation tool to remove 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.
- Be extremely careful, the microprocessor socket contacts are very fragile. Do not touch the microprocessor socket contacts. Contaminants on the microprocessor contacts or microprocessor socket contacts, such as oil from your skin, can cause connection failures between the contacts and the socket.
- Do not allow the thermal grease on the microprocessor and heat sink to come in contact with anything. Contact with any surface can contaminate the thermal grease and the microprocessor socket.
- Do not use any tools or sharp objects to lift the locking levers on the microprocessor socket. Doing so might result in permanent damage to the system board.
- Each microprocessor socket must always contain either a socket cover or a microprocessor and heat sink.
- Be sure to use only the installation tools provided with the new microprocessor to remove or install the microprocessor. Do not use any other tool.
- When installing multiple microprocessors, open one microprocessor socket at a time to avoid damaging other microprocessor socket contacts.
- The microprocessor installation tool has the microprocessor installed on the tool, and may have a protective cover over the microprocessor. Do not use the tool, or remove the cover until you are instructed to do so.

Note: Be sure to use the installation tool that comes with your microprocessor installation tool assembly. The tool has two settings for installing two different sizes of microprocessors. The settings that are marked on the tool are “L” for smaller low core microprocessors, and “H” for larger high core microprocessors.

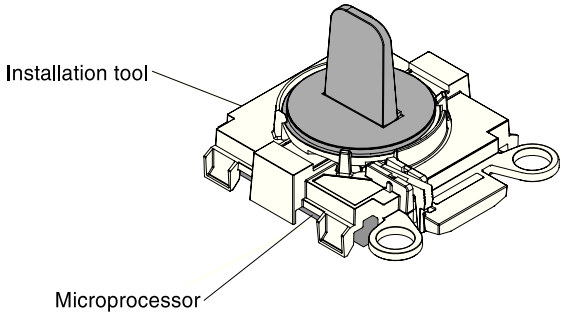


Figure 174. Microprocessor installation tool

To remove a microprocessor and heat sink, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. Turn off the server and peripheral devices and disconnect all power cords.
3. Remove the cover (see "Removing the cover" on page 126).
4. Remove the air baffle (see "Removing the air baffle" on page 129).
5. Locate the microprocessor to be removed (see "System-board internal connectors" on page 27).
6. 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. Use a screwdriver to loosen the captive screw on one side of the heat sink to break the seal with the microprocessor.
   b. Loosen all the captive screws on the heat sink, rotating each screw one full turn until each screw is loose.
   c. Gently lift the heat sink from the microprocessor. After removal, place the heat sink (with the thermal grease side up) on a clean, flat surface.

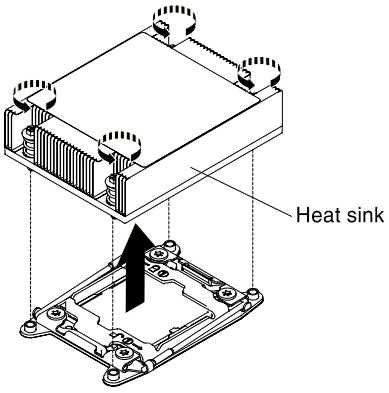


Figure 175. Heat sink removal

7. Open the microprocessor socket release levers and retainer.

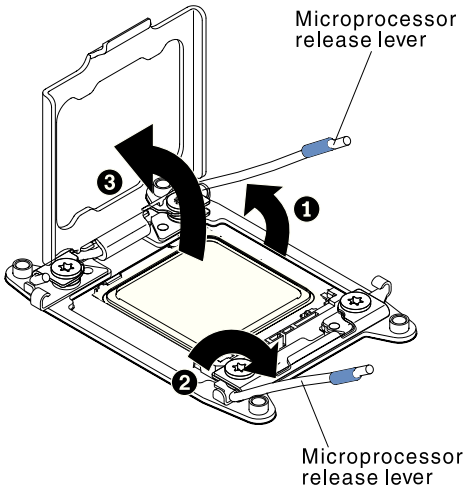


Figure 176. Microprocessor socket levers and retainer disengagement

   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.

8. Remove the microprocessor from the socket.
   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:
      - When using the installation tool, **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.

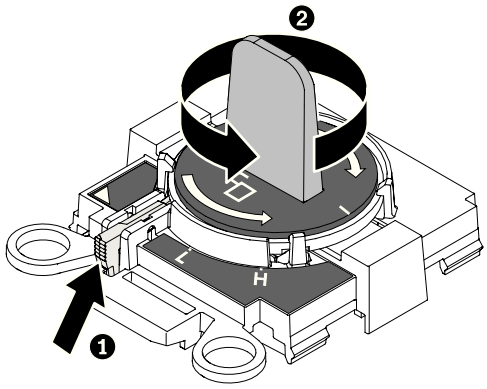


Figure 177. Installation tool handle adjustment

b. Align the installation tool with the screws, as shown in the following graphic, and lower the installation tool on the microprocessor. The installation tool rests flush on the socket only when it is aligned correctly.

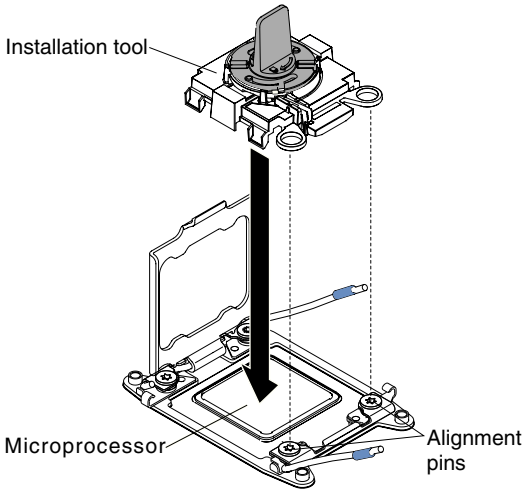


Figure 178. Installation tool alignment

c. Using the following instructions for your installation tool to remove the microprocessor.
   - When using the installation tool, gently twist the handle of the installation tool clockwise until it locks in the "H" or "L" position, depending on the size of microprocessor, and then lift the microprocessor out of the socket.

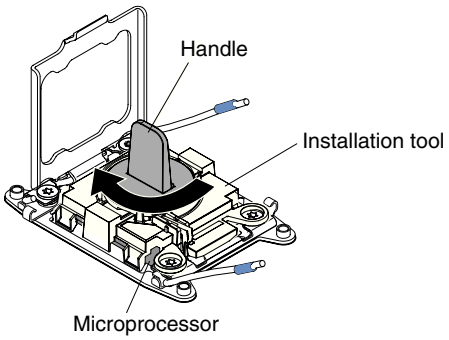


Figure 179. Installation tool handle adjustment

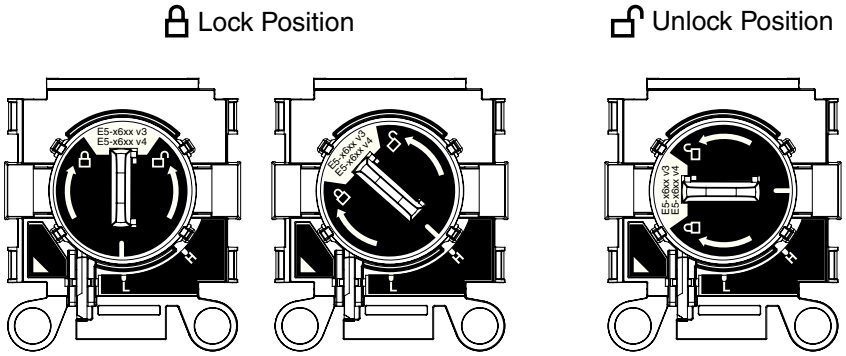


Figure 180. Installation Tool

d. Lift the microprocessor out of the socket.

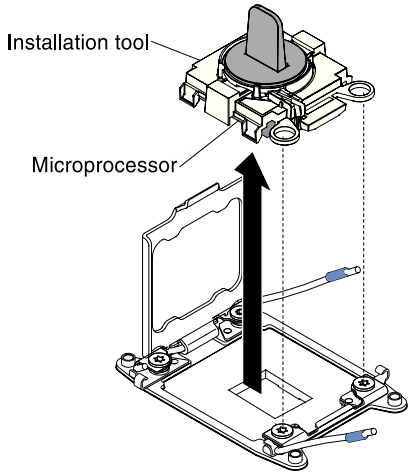


Figure 181. Installation tool removal

9. Install the new microprocessor (see "Replacing a microprocessor and heat sink" on page 252).

   Attention: If you are replacing a microprocessor, use the empty installation tool that comes with the new microprocessor to remove the microprocessor.

10. If you do not intend to install a microprocessor on the socket, install the socket cover that you removed in step 7 on page 256 on the microprocessor socket.

    Attention: The pins on the socket are fragile. Any damage to the pins may require replacing the system board.

Results

If you are instructed to return the microprocessor, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Replacing 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.

About this task

- 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.
- Be extremely careful, the microprocessor socket contacts are very fragile. Do not touch the microprocessor socket contacts. Contaminants on the microprocessor contacts or microprocessor socket contacts, such as oil from your skin, can cause connection failures between the contacts and the socket.
- Do not allow the thermal grease on the microprocessor and heat sink to come in contact with anything. Contact with any surface can contaminate the thermal grease and the microprocessor socket.
- Do not use any tools or sharp objects to lift the locking levers on the microprocessor socket. Doing so might result in permanent damage to the system board.
- Each microprocessor socket must always contain either a socket cover or a microprocessor and heat sink.
- Be sure to use only the installation tools provided with the new microprocessor to remove or install the microprocessor. Do not use any other tool.
- When installing multiple microprocessors, open one microprocessor socket at a time to avoid damaging other microprocessor socket contacts.
- The server supports up to two multi-core microprocessors. See http://www.ibm.com/systems/info/x86servers/serverproven/compat/us for a list of supported microprocessors.
- The first microprocessor must always be installed in microprocessor socket 1 on the system board.
- When one microprocessor is installed, the air baffle must be installed to provide proper system cooling.
- Do not remove the first microprocessor from the system board when you install the second microprocessor.
- When you install the second microprocessor, you must also install additional memory and the sixth and eighth fans. See “Memory module installation” on page 165 for details about the installation sequence.
- Do not mix microprocessors with different cores in the same server.
- 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.

- Both microprocessor voltage regulator modules are integrated on the system board.
- 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 your 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 258.

  Note: Removing the heat sink from the microprocessor destroys the even distribution of the thermal grease and requires replacing the thermal grease.
- To order an additional optional microprocessor, contact your IBM sales representative or IBM reseller.
- The microprocessor installation tool has the microprocessor installed on the tool, and may have a protective cover over the microprocessor. Do not use the tool, or remove the cover until you are instructed to do so.

  Note: Be sure to use the installation tool that comes with your microprocessor installation tool assembly. The tool has two settings for installing two different sizes of microprocessors. The settings that are marked on the tool are "L" for smaller low core microprocessors, and "H" for larger high core microprocessors.

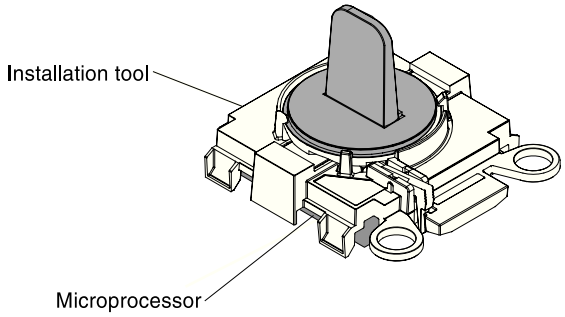


Figure 182. Microprocessor installation tool

To replace a microprocessor and heat sink, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii and "Installation guidelines" on page 122.
2. 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 124.
3. Remove the cover (see "Removing the cover" on page 126).
4. Remove the air baffle (see "Removing the air baffle" on page 129).

5. Open the microprocessor socket release levers and retainer:

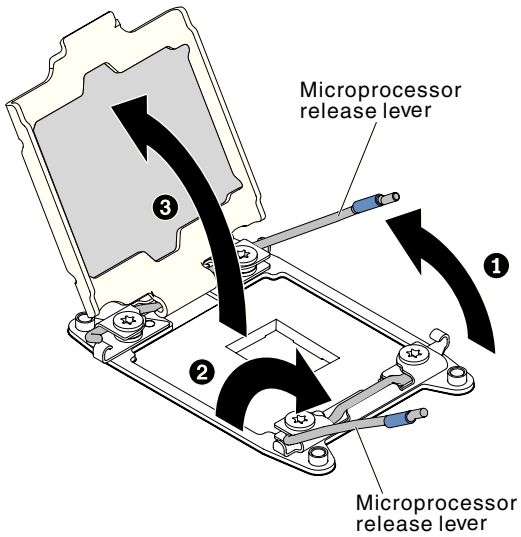


Figure 183. Microprocessor socket levers and retainer disengagement

   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.

6. Install the microprocessor in the microprocessor socket:
   a. Open the packaging that contains the new microprocessor installation tool assembly and carefully remove the installation tool assembly from the package. The microprocessor is preinstalled on the installation tool.

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

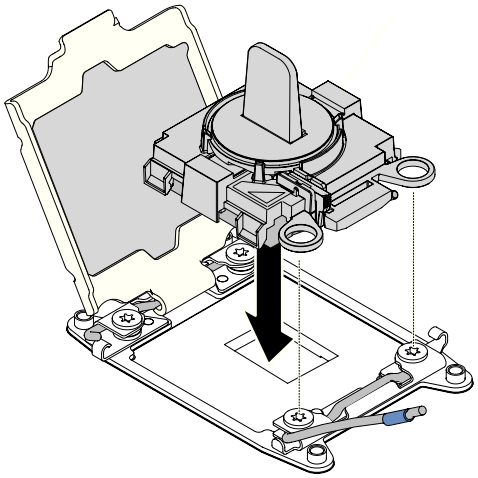


Figure 184. Installation tool alignment

c. Install the microprocessor using the following instructions for your installation tool.
   - When using the installation tool, 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.

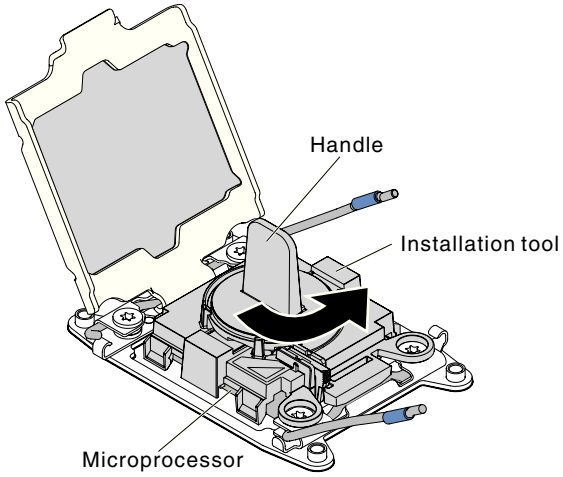


Figure 185. Installation tool handle adjustment

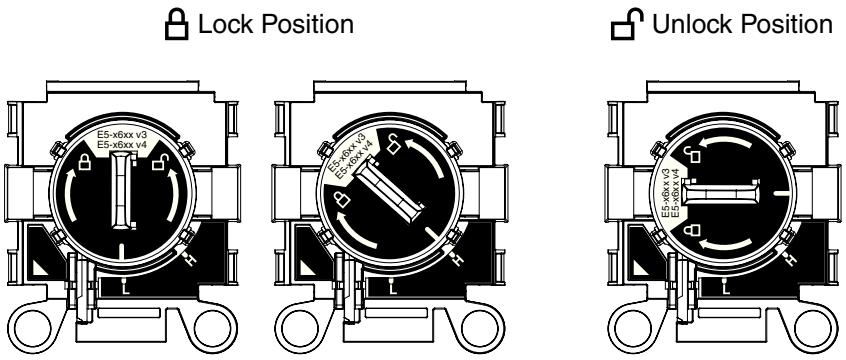


Figure 186. Installation Tool

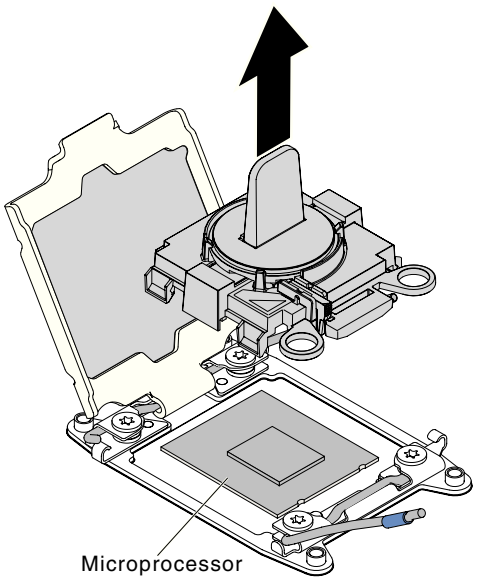


Figure 187. Installation tool removal

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.

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

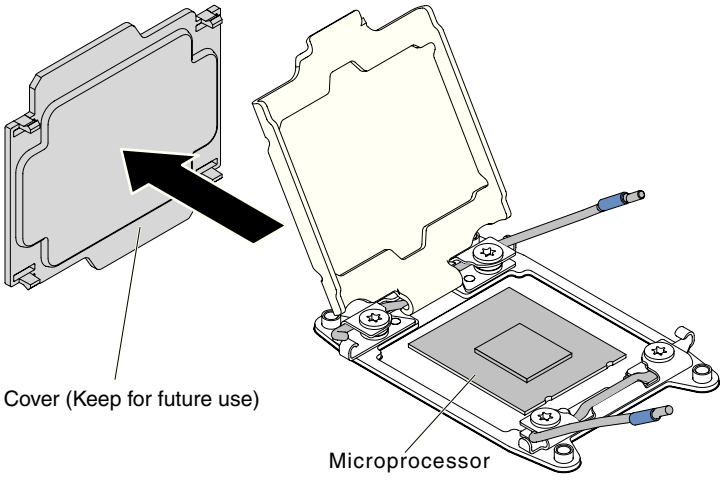


Figure 188. Socket cover removal

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 124.

8. Close the microprocessor socket release levers and retainer:

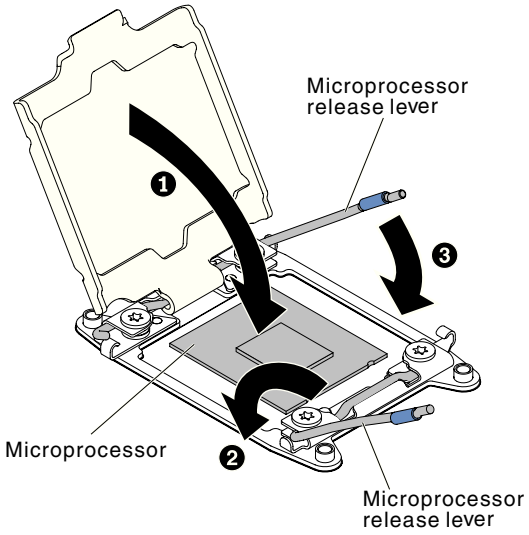


Figure 189. Microprocessor socket levers and retainer engagement

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.

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 258 for more information.

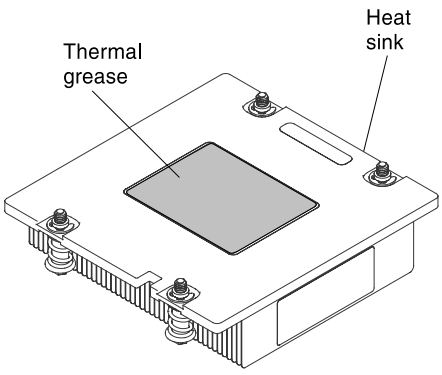


Figure 190. Thermal grease

a. Remove the plastic protective cover from the bottom of the heat sink.
b. Position the heat sink over the microprocessor. The heat sink is keyed to assist with proper alignment.

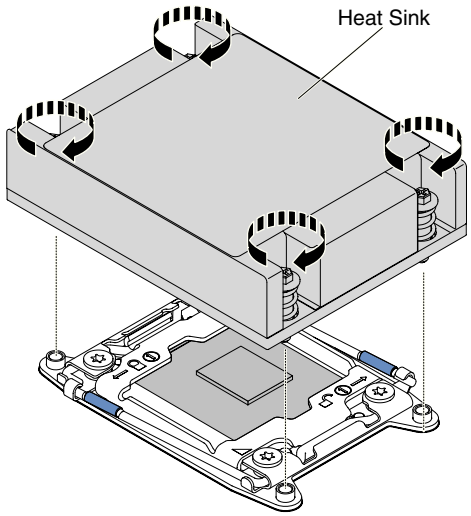


Figure 191. Heat sink installation

c. Align and place the heat sink on top of the microprocessor in the retention bracket, thermal material side down.
d. Press firmly on the heat sink.
e. Press down on the center of the heat sink; then, press firmly on the captive screws and tighten them, alternating between the screws in a figure-8 pattern as illustrated on the heat sink label until they are tightened. You can cause damage to the microprocessor if you tighten the screws on one side first, rather than rotating. Rotate each screw one full rotation at a time. Repeat this process until the screws are tightened.

10. Reinstall the air baffle (see "Replacing the air baffle" on page 129).
11. Reinstall the cover (see "Replacing the cover" on page 127).
12. Slide the server into the rack.
13. Reconnect the power cords and any cables that you removed.
14. Turn on the peripheral devices and the server.

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.

About this task

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 that begins on "Safety" on page vii.
- Read the "Installation guidelines" on page 122.
- Read "Handling static-sensitive devices" on page 124.

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

Procedure

1. Place the heat sink on a clean work surface.
2. Remove the cleaning pad from its package and unfold it completely.
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.
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.
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.

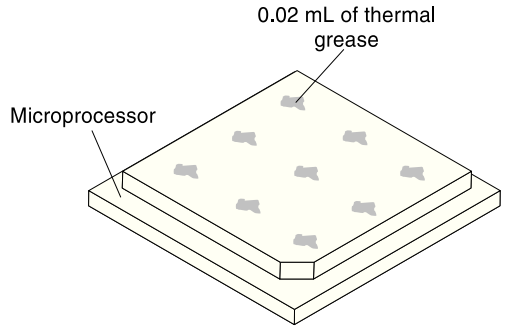


Figure 192. Thermal grease distribution

Note: If the grease is properly applied, approximately half of the grease will remain in the syringe.

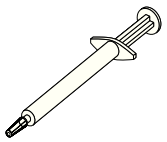


Figure 193. Syringe

6. Install the heat sink onto the microprocessor.

Removing the system board

Use this information to remove the system board.

About this task

Notes:

1. 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.
2. When you replace the system board, make sure that you remove the Integrated Management Module 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 48.
3. Before you replace the system board, make sure that you back up any features on demand (FoD) keys that were enabled. Reactivate any Features on Demand features. Instructions for automating the activation of features and installing activation keys is in the *IBM Features on Demand User's Guide*. To download the document, go to /http://www.ibm.com/systems/x/fod/, log in, and click **Help**.

To remove the system board, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii, "Handling static-sensitive devices" on page 124, and "Installation guidelines" on page 122.
2. Turn off the server and any attached devices.
3. Turn off the peripheral devices and disconnect all power cords.

   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.
4. Pull the power supplies out of the rear of the server, just enough to disengage them from the server.
5. Remove the cover (see "Removing the cover" on page 126).
6. Remove the air baffle (see "Removing the air baffle" on page 129).
7. Remove all PCI riser-card assemblies and adapters (see "Removing a PCI riser-card assembly" on page 170 and "Removing an adapter" on page 177).
8. Remove the ServeRAID SAS/SATA controller (see "Removing a ServeRAID SAS/SATA controller" on page 186).
9. Remove the memory modules and set them aside on a static-protective surface for reinstallation (see "Removing a memory module" on page 164).

   Note: Make a note of the location of each DIMM as you remove it, so that you can later reinstall it in the same connector.
10. (Trained technician only) Remove all heat sinks and microprocessors, and set them aside on a static-protective surface for reinstallation (see "Removing a microprocessor and heat sink" on page 247).

    Notes:

a. 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.

b. 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.

11. Disconnect all cables from the system board. Make a list of each cable as you disconnect it; you can then use this as a checklist when you install the new system board.

    Attention: Disengage all latches, release tabs or locks on cable connectors when you disconnect all cables from the system board. 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.

12. Remove the hot-swap fans (see "Removing a thermal kit (hot-swap fan)" on page 194).

13. For 2.5-inch hard disk drive server models, open the system board retention lever. For the 3.5-inch hard disk drive server models, press the blue release tabs and lift the battery or power module holder upward.

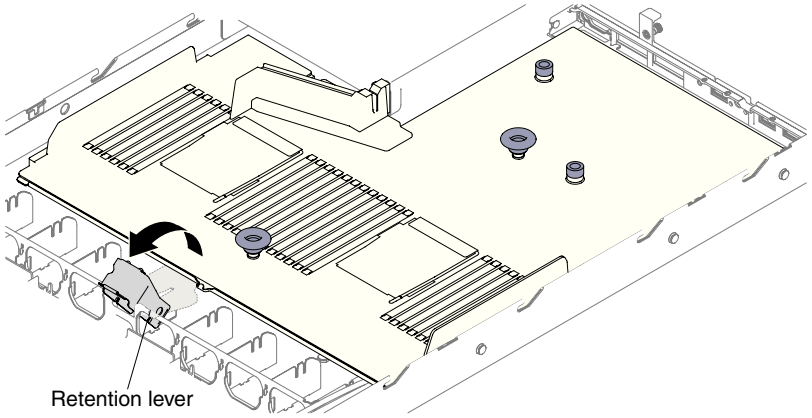


Figure 194. Retention lever location for 2.5-inch hard disk drive server models

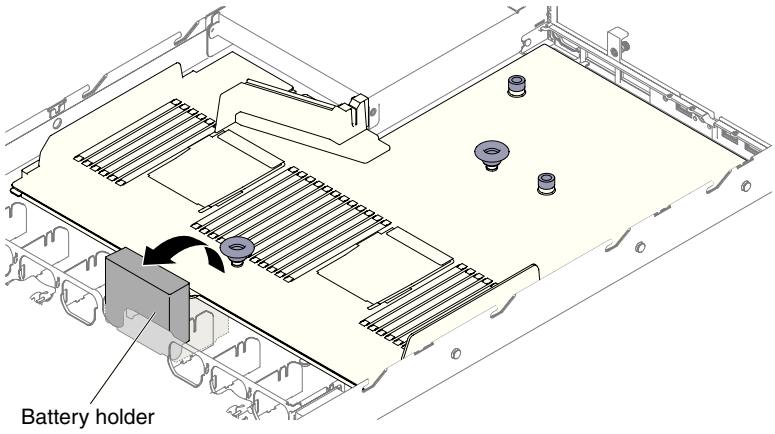


Figure 195. Battery or power module holder location for 3.5-inch hard disk drive server models

14. Loosen the two thumbscrews (one is near PCI slot 1 and one is near PCI slot 2).

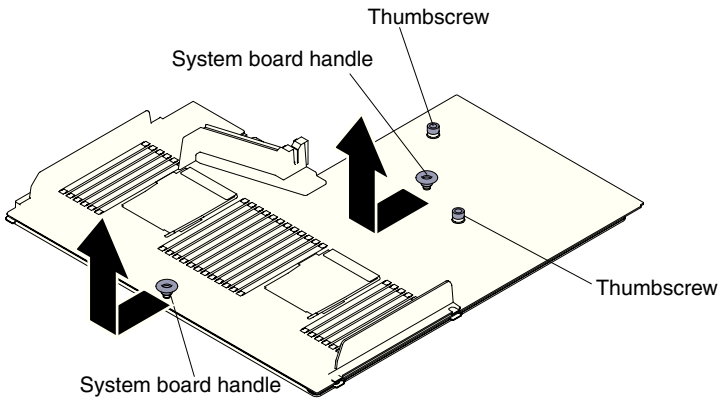


Figure 196. Thumbscrews disengagement

15. Grasp the system board handles and slide the system board toward the front of the server until it stops.

    Note: Make sure that the system board disengage from all system-board standoffs.

16. Slightly push the system board toward the hot-swap fans; then, grasp the system board handles and carefully lift it up from the chassis, being careful not to damage any surrounding components.

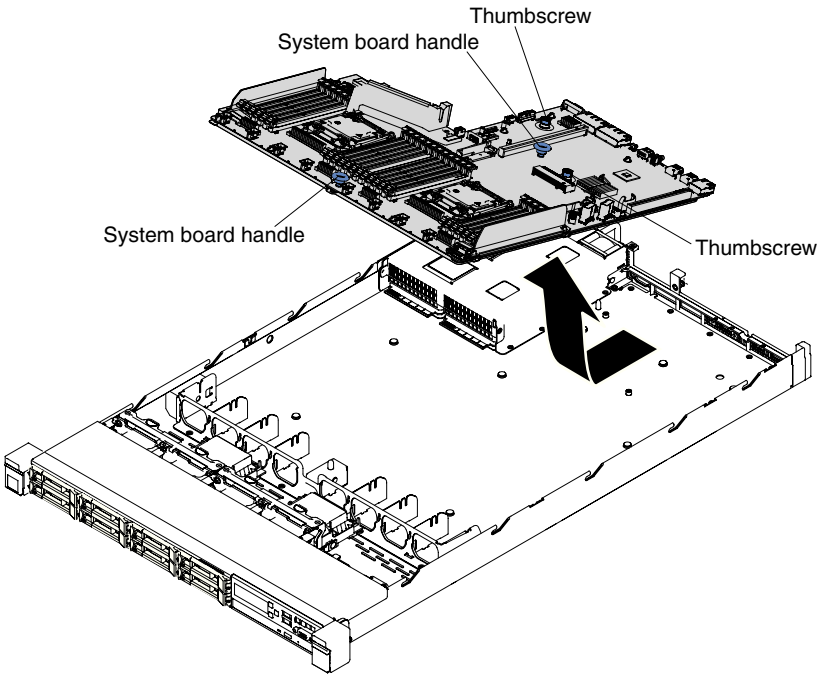


Figure 197. System board removal

17. Remove the socket 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.
18. If you are instructed to return the system board, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

    Attention: Make sure to place the socket covers for the microprocessor sockets on the system board before returning the system board.

Replacing the system board

Use this information to replace the system board.

About this task

Important:

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 35, "Updating the Universal Unique Identifier (UUID)" on page 55, and "Updating the DMI/SMBIOS data" on page 57 for more information.
3. When you replace the system board, make sure that you remove the Integrated Management Module 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 48.
4. Reactivate any Features on Demand features. Instructions for automating the activation of features and installing activation keys is in the *IBM Features on*

Demand User's Guide. To download the document, go to /http://www.ibm.com/systems/x/fod/, log in, and click **Help**.

5. 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.

To install the system board, complete the following steps:

Procedure

1. Read the safety information that begins on "Safety" on page vii, "Handling static-sensitive devices" on page 124, and "Installation guidelines" on page 122.
2. Grasp the system board handles to align the system board with the chassis; then, lower the system board into the chassis and slide the system board toward the rear of the server until the system board is seated firmly into the locator pins on the chassis.

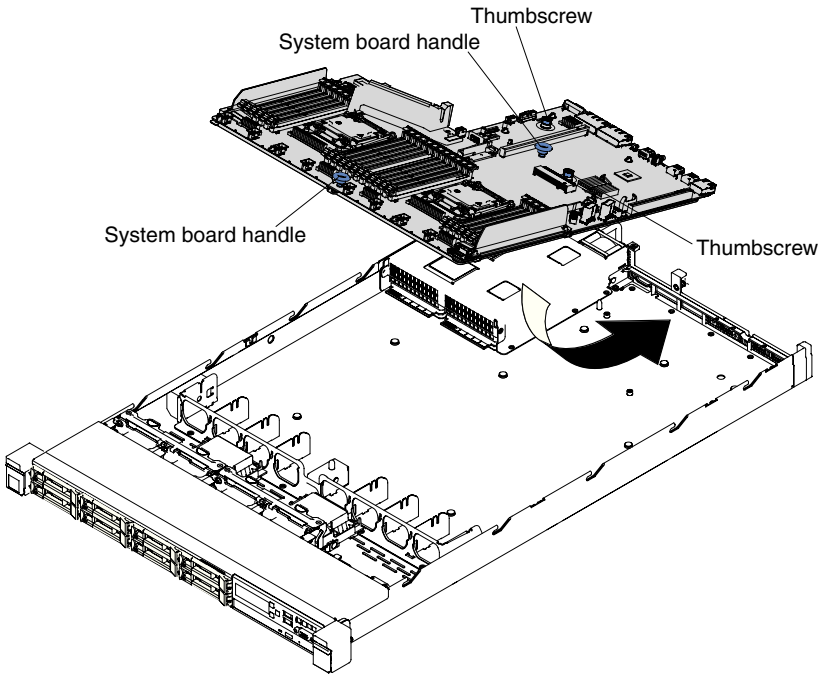


Figure 198. System board installation

Note: Make sure that all the system board standoffs engage the system board correctly.

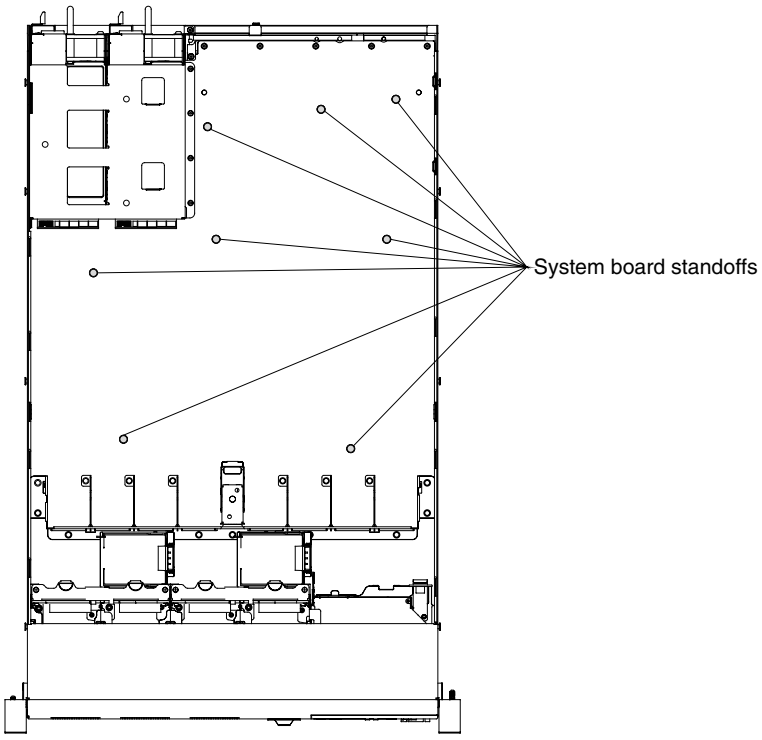


Figure 199. System-board standoffs

3. Fasten the two thumbscrews (one is near PCI slot 2 and one is between fans 4 and 5).

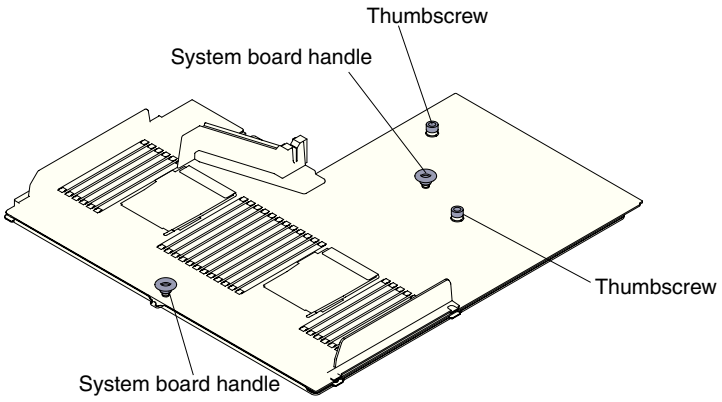


Figure 200. Thumbscrews engagement

4. For 2.5-inch hard disk drive server models, close the system board retention lever. For the 3.5-inch hard disk drive server models, press the blue release tabs and lower the battery or power module holder into the chassis.

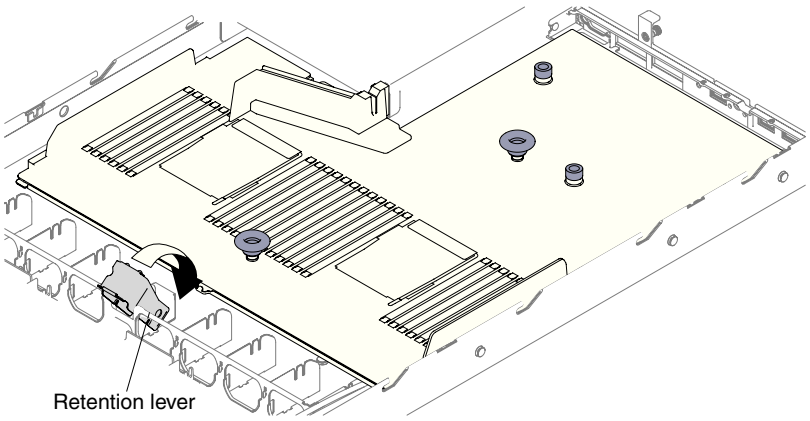


Figure 201. Retention lever location

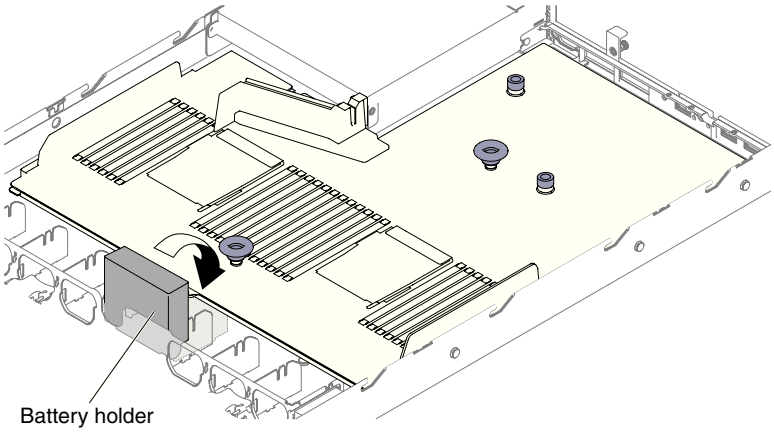


Figure 202. Battery or power module holder location for 3.5-inch hard disk drive server models

5. Reinstall the hot-swap fans (see “Replacing a thermal kit (hot-swap fan)” on page 195).
6. (Trained technician only) Install the microprocessor and heat sink (see “Replacing a microprocessor and heat sink” on page 252).
7. Reinstall the memory modules (see “Memory module installation” on page 165).
8. Reinstall the ServeRAID SAS/SATA controller (see “Replacing a ServeRAID SAS/SATA controller” on page 187).
9. Reconnect the cables to the system board that you disconnected in 11 on page 261.
10. Reinstall the PCI riser-card assemblies and adapters, if any were installed (see “Replacing an adapter” on page 180 and “Replacing a PCI riser-card assembly” on page 172).
11. Reinstall the air baffle (see “Replacing the air baffle” on page 129).
12. Reinstall the cover (see “Replacing the cover” on page 127).
13. Push the power supplies back into the server.
14. Slide the server into the rack.
15. Reconnect the power cords and any cables that you removed.
16. Turn on the peripheral devices and the server.

17. Start the Setup utility and reset the configuration.
    - Set the system date and time.
    - Set the power-on password.
    - Reconfigure the server.

    See "Using the Setup utility" on page 40 for more details.
18. Either update the server with the latest RAID firmware or restore the pre-existing firmware from a diskette or CD image.
19. Update the UUID (see "Updating the Universal Unique Identifier (UUID)" on page 55).
20. Update the DMI/SMBIOS (see "Updating the DMI/SMBIOS data" on page 57).
21. Reactivate any Features on Demand features.

Appendix A. Integrated management module 2.1 (IMM2.1) error messages

When a hardware event is detected by the IMM on the server, the IMM 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 system-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
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
Whether user action is required to correct the problem.

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CIM Information
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), IBM Support will be notified automatically if the event is generated.

While you wait for IBM Support to call, you can perform the recommended actions for the event.

User response
The actions that 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 IBM 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 IMM2.1 error messages and suggested actions to correct the detected server problems. For more information about IMM2.1, see the *Integrated Management Module II User's Guide* at http://www.ibm.com/support/entry/portal/docdisplay?lndocid=MIGR-5089484..

IMM Events that automatically notify Support

You can configure the Integrated Management Module II (IMM2) 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 41. 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

Table 41. Events that automatically notify Support (continued)

Event ID	Message String	Automatically Notify Support
806f0021-2c01ffff	Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (ML2 Card Fault)	Yes
806f0021-3001ffff	Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (Internal RAID)	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
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

Table 41. Events that automatically notify Support (continued)

Event ID	Message String	Automatically Notify Support
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
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

Table 41. Events that automatically notify Support (continued)

Event ID	Message String	Automatically Notify Support
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
806f010d-0407ffff	The Drive [StorageVolumeElementName] has been disabled due to a detected fault. (Drive 7)	Yes

Table 41. Events that automatically notify Support (continued)

Event ID	Message String	Automatically Notify Support
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
806f011b-0701ffff	The connector [PhysicalConnectorElementName] has encountered a configuration error. (Front USB)	Yes
806f011b-0c01ffff	The connector [PhysicalConnectorElementName] has encountered a configuration error. (FP LCD Cable)	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

Table 41. Events that automatically notify Support (continued)

Event ID	Message String	Automatically Notify Support
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
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
806f050c-2005ffff	Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5)	Yes

Table 41. Events that automatically notify Support (continued)

Event ID	Message String	Automatically Notify Support
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

Table 41. Events that automatically notify Support (continued)

Event ID	Message String	Automatically Notify Support
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
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

Table 41. Events that automatically notify Support (continued)

Event ID	Message String	Automatically Notify Support
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
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

40000001-00000000 Management Controller [arg1] Network Initialization Complete.

Explanation: 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

Alert Category: System - IMM Network event

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0001

SNMP Trap ID: 37

Automatically notify Support: No

User response: Information only; no action is required.

40000002-00000000 Certificate Authority [arg1] has detected a [arg2] Certificate Error.

Explanation: 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

Alert Category: System - SSL certification

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0002

SNMP Trap ID: 22

Automatically notify Support: No

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].

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0003

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000004-00000000 Ethernet Duplex setting modified from [arg1] to [arg2] by user [arg3].

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0004

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000005-00000000 Ethernet MTU setting modified from [arg1] to [arg2] by user [arg3].

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0005

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000006-00000000 Ethernet locally administered MAC address modified from [arg1] to [arg2] by user [arg3].

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0006

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000007-00000000 Ethernet interface [arg1] by user [arg2].

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0007

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000008-00000000 Hostname set to [arg1] by user [arg2].

Explanation: 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

Alert Category: System - IMM Network event

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0008

SNMP Trap ID: 37

Automatically notify Support: No

User response: Information only; no action is required.

40000009-00000000 IP address of network interface modified from [arg1] to [arg2] by user [arg3].

Explanation: 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

Alert Category: System - IMM Network event

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0009

SNMP Trap ID: 37

Automatically notify Support: No

User response: Information only; no action is required.

4000000a-00000000 IP subnet mask of network interface modified from [arg1] to [arg2] by user [arg3].

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0010

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000000b-00000000 IP address of default gateway modified from [arg1] to [arg2] by user [arg3].

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0011

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000000c-00000000 OS Watchdog response [arg1] by [arg2] .

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0012

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000000d-00000000 DHCP[[arg1]] failure, no IP address assigned.

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0013

SNMP Trap ID:

Automatically notify Support: No

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].

Explanation: 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

Alert Category: System - Remote Login

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0014

SNMP Trap ID: 30

Automatically notify Support: No

User response: Information only; no action is required.

4000000f-00000000 Attempting to [arg1] server [arg2] by user [arg3].

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0015

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000010-00000000 Security: Userid: [arg1] had [arg2] login failures from WEB client at IP address [arg3].

Explanation: 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

Alert Category: System - Remote Login

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0016

SNMP Trap ID: 30

Automatically notify Support: No

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].

Explanation: 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

Alert Category: System - Remote Login

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0017

SNMP Trap ID: 30

Automatically notify Support: No

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].

Explanation: 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

Alert Category: System - Remote Login

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0018

SNMP Trap ID: 30

Automatically notify Support: No

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].

Explanation: 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

Alert Category: System - Remote Login

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0019

SNMP Trap ID: 30

Automatically notify Support: No

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].

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0020

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000015-00000000 Management Controller [arg1] reset was initiated by user [arg2].

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0021

SNMP Trap ID:

Automatically notify Support: No

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] .

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0022

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000017-00000000 ENET[[arg1]] IP-Cfg:HstName=[arg2], IP@=[arg3] ,NetMsk=[arg4], GW@=[arg5] .

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0023

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000018-00000000 LAN: Ethernet[[arg1]] interface is no longer active.

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0024

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000019-00000000 LAN: Ethernet[[arg1]] interface is now active.

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0025

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000001a-00000000 DHCP setting changed to [arg1] by user [arg2].

Explanation: This message is for the use case where a user changes the DHCP setting.

May also be shown as 4000001a00000000 or 0x4000001a00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0026

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000001b-00000000 Management Controller [arg1]: Configuration restored from a file by user [arg2].

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0027

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000001c-00000000 Watchdog [arg1] Screen Capture Occurred .

Explanation: 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

Alert Category: System - other

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0028

SNMP Trap ID: 22

Automatically notify Support: No

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.

Explanation: 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

Alert Category: System - other

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0029

SNMP Trap ID: 22

Automatically notify Support: No

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.

Explanation: 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

Alert Category: System - other

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0030

SNMP Trap ID: 22

Automatically notify Support: No

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.

Explanation: 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

Alert Category: System - other

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0031

SNMP Trap ID: 22

Automatically notify Support: No

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.

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0032

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000021-00000000 Management Controller [arg1] clock has been set from NTP server [arg2].

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0033

SNMP Trap ID:

Automatically notify Support: No

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.

Explanation: 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

Alert Category: System - other

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0034

SNMP Trap ID: 22

Automatically notify Support: No

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] .

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0035

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000024-00000000 Flash of [arg1] from [arg2] failed for user [arg3].

Explanation: 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

Alert Category: System - other

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0036

SNMP Trap ID: 22

Automatically notify Support: No

User response: Information only; no action is required.

40000025-00000000 The [arg1] on system [arg2] is 75% full.

Explanation: 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

Alert Category: System - Event Log 75% full

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0037

SNMP Trap ID: 35

Automatically notify Support: No

User response: Information only; no action is required.

40000026-00000000 The [arg1] on system [arg2] is 100% full.

Explanation: 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

Alert Category: System - Event Log 75% full

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0038

SNMP Trap ID: 35

Automatically notify Support: No

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].

Explanation: 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

Alert Category: System - OS Timeout

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0039

SNMP Trap ID: 21

Automatically notify Support: No

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].

Explanation: 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

Alert Category: System - other

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0040

SNMP Trap ID: 22

Automatically notify Support: No

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].

Explanation: 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

Alert Category: System - Remote Login

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0041

SNMP Trap ID: 30

Automatically notify Support: No

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.

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0042

SNMP Trap ID: 22

Automatically notify Support: No

User response: Reflash the IMM firmware to the latest version.

4000002b-00000000 Domain name set to [arg1].

Explanation: Domain name set by user

May also be shown as 4000002b00000000 or 0x4000002b00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0043

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000002c-00000000 Domain Source changed to [arg1] by user [arg2].

Explanation: Domain source changed by user

May also be shown as 4000002c00000000 or 0x4000002c00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0044

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000002d-00000000 DDNS setting changed to [arg1] by user [arg2].

Explanation: DDNS setting changed by user

May also be shown as 4000002d00000000 or 0x4000002d00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0045

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000002e-00000000 DDNS registration successful. The domain name is [arg1].

Explanation: DDNS registation and values

May also be shown as 4000002e00000000 or 0x4000002e00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0046

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000002f-00000000 IPv6 enabled by user [arg1] .

Explanation: IPv6 protocol is enabled by user

May also be shown as 4000002f00000000 or 0x4000002f00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0047

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000030-00000000 IPv6 disabled by user [arg1] .

Explanation: IPv6 protocol is disabled by user

May also be shown as 4000003000000000 or 0x4000003000000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0048

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000031-00000000 IPv6 static IP configuration enabled by user [arg1].

Explanation: IPv6 static address assignment method is enabled by user

May also be shown as 4000003100000000 or 0x4000003100000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0049

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000032-00000000 IPv6 DHCP enabled by user [arg1].

Explanation: IPv6 DHCP assignment method is enabled by user

May also be shown as 4000003200000000 or 0x4000003200000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0050

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000033-00000000 IPv6 stateless auto-configuration enabled by user [arg1].

Explanation: IPv6 statless auto-assignment method is enabled by user

May also be shown as 4000003300000000 or 0x4000003300000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0051

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000034-00000000 IPv6 static IP configuration disabled by user [arg1].

Explanation: IPv6 static assignment method is disabled by user

May also be shown as 4000003400000000 or 0x4000003400000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0052

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000035-00000000 IPv6 DHCP disabled by user [arg1].

Explanation: IPv6 DHCP assignment method is disabled by user

May also be shown as 4000003500000000 or 0x4000003500000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0053

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000036-00000000 IPv6 stateless auto-configuration disabled by user [arg1].

Explanation: IPv6 statless auto-assignment method is disabled by user

May also be shown as 4000003600000000 or 0x4000003600000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0054

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000037-00000000 ENET[[arg1]] IPv6-LinkLocal:HstName=[arg2], IP@=[arg3] ,Pref=[arg4] .

Explanation: IPv6 Link Local address is active

May also be shown as 4000003700000000 or 0x4000003700000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0055

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000038-00000000 ENET[[arg1]] IPv6-Static:HstName=[arg2], IP@=[arg3] ,Pref=[arg4], GW@=[arg5] .

Explanation: IPv6 Static address is active

May also be shown as 4000003800000000 or 0x4000003800000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0056

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000039-00000000 ENET[[arg1]] DHCPv6-HSTN=[arg2], DN=[arg3], IP@=[arg4], Pref=[arg5].

Explanation: IPv6 DHCP-assigned address is active

May also be shown as 4000003900000000 or 0x4000003900000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0057

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000003a-00000000 IPv6 static address of network interface modified from [arg1] to [arg2] by user [arg3].

Explanation: A user modifies the IPv6 static address of a Management Controller

May also be shown as 4000003a00000000 or 0x4000003a00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0058

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000003b-00000000 DHCPv6 failure, no IP address assigned.

Explanation: S DHCP6 server fails to assign an IP address to a Management Controller.

May also be shown as 4000003b00000000 or 0x4000003b00000000

Severity: Warning

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0059

SNMP Trap ID:

Automatically notify Support: No

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].

Explanation: An implementation has detected an OS Loader Watchdog Timer Expired

May also be shown as 4000003c00000000 or 0x4000003c00000000

Severity: Error

Alert Category: System - Loader timeout

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0060

SNMP Trap ID: 26

Automatically notify Support: No

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].

Explanation: A user has modified the telnet port number

May also be shown as 4000003d00000000 or 0x4000003d00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0061

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000003e-00000000 SSH port number changed from [arg1] to [arg2] by user [arg3].

Explanation: A user has modified the SSH port number

May also be shown as 4000003e00000000 or 0x4000003e00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0062

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000003f-00000000 Web-HTTP port number changed from [arg1] to [arg2] by user [arg3].

Explanation: A user has modified the Web HTTP port number

May also be shown as 4000003f00000000 or 0x4000003f00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0063

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000040-00000000 Web-HTTPS port number changed from [arg1] to [arg2] by user [arg3].

Explanation: A user has modified the Web HTTPS port number

May also be shown as 4000004000000000 or 0x4000004000000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0064

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000041-00000000 CIM/XML HTTP port number changed from [arg1] to [arg2] by user [arg3].

Explanation: A user has modified the CIM HTTP port number

May also be shown as 4000004100000000 or 0x4000004100000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0065

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000042-00000000 CIM/XML HTTPS port number changed from [arg1] to [arg2] by user [arg3].

Explanation: A user has modified the CIM HTTPS port number

May also be shown as 4000004200000000 or 0x4000004200000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0066

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000043-00000000 SNMP Agent port number changed from [arg1] to [arg2] by user [arg3].

Explanation: A user has modified the SNMP Agent port number

May also be shown as 4000004300000000 or 0x4000004300000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0067

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000044-00000000 SNMP Traps port number changed from [arg1] to [arg2] by user [arg3].

Explanation: A user has modified the SNMP Traps port number

May also be shown as 4000004400000000 or 0x4000004400000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0068

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000045-00000000 Syslog port number changed from [arg1] to [arg2] by user [arg3].

Explanation: A user has modified the Syslog receiver port number

May also be shown as 4000004500000000 or 0x4000004500000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0069

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000046-00000000 Remote Presence port number changed from [arg1] to [arg2] by user [arg3].

Explanation: A user has modified the Remote Presence port number

May also be shown as 4000004600000000 or 0x4000004600000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0070

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000047-00000000 LED [arg1] state changed to [arg2] by [arg3].

Explanation: A user has modified the state of an LED

May also be shown as 4000004700000000 or 0x4000004700000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0071

SNMP Trap ID:

Automatically notify Support: No

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] .

Explanation: Something has caused the physical inventory to change

May also be shown as 4000004800000000 or 0x4000004800000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0072

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000049-00000000 SNMP [arg1] enabled by user [arg2] .

Explanation: A user enabled SNMPv1 or SNMPv3 or Traps

May also be shown as 4000004900000000 or 0x4000004900000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0073

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000004a-00000000 SNMP [arg1] disabled by user [arg2] .

Explanation: A user disabled SNMPv1 or SNMPv3 or Traps

May also be shown as 4000004a00000000 or 0x4000004a00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0074

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000004b-00000000 SNMPv1 [arg1] set by user [arg2]: Name=[arg3], AccessType=[arg4], Address=[arg5], .

Explanation: A user changed the SNMP community string

May also be shown as 4000004b00000000 or 0x4000004b00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0075

SNMP Trap ID:

Automatically notify Support: No

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].

Explanation: A user changed the LDAP server configuration

May also be shown as 4000004c00000000 or 0x4000004c00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0076

SNMP Trap ID:

Automatically notify Support: No

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].

Explanation: A user configured an LDAP Miscellaneous setting

May also be shown as 4000004d00000000 or 0x4000004d00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0077

SNMP Trap ID:

Automatically notify Support: No

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].

Explanation: A user configured the Serial Port mode

May also be shown as 4000004e00000000 or 0x4000004e00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0078

SNMP Trap ID:

Automatically notify Support: No

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].

Explanation: A user configured the Date and Time settings

May also be shown as 4000004f00000000 or 0x4000004f00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0079

SNMP Trap ID:

Automatically notify Support: No

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].

Explanation: A user configured the Location setting

May also be shown as 4000005000000000 or 0x4000005000000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0080

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000051-00000000 Server Power Off Delay set to [arg1] by user [arg2].

Explanation: A user configured the Server Power Off Delay

May also be shown as 4000005100000000 or 0x4000005100000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0081

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000052-00000000 Server [arg1] scheduled for [arg2] at [arg3] by user [arg4].

Explanation: A user configured a Server Power action at a specific time

May also be shown as 4000005200000000 or 0x4000005200000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0082

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000053-00000000 Server [arg1] scheduled for every [arg2] at [arg3] by user [arg4].

Explanation: A user configured a recurring Server Power Action

May also be shown as 4000005300000000 or 0x4000005300000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0083

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000054-00000000 Server [arg1] [arg2] cleared by user [arg3].

Explanation: A user cleared a Server Power Action.

May also be shown as 4000005400000000 or 0x4000005400000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0084

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000055-00000000 Synchronize time setting by user [arg1]: Mode=[arg2], NTPServerHost=[arg3]:[arg4],NTPUpdateFrequency=[arg5].

Explanation: A user configured the Date and Time synchronize settings

May also be shown as 4000005500000000 or 0x4000005500000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0085

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000056-00000000 SMTP Server set by user [arg1] to [arg2]:[arg3].

Explanation: A user configured the SMTP server

May also be shown as 4000005600000000 or 0x4000005600000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0086

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000057-00000000 Telnet [arg1] by user [arg2].

Explanation: A user enables or disables Telnet services

May also be shown as 4000005700000000 or 0x4000005700000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0087

SNMP Trap ID:

Automatically notify Support: No

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].

Explanation: A user configures the DNS servers

May also be shown as 4000005800000000 or 0x4000005800000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0088

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000059-00000000 LAN over USB [arg1] by user [arg2].

Explanation: A user configured USB-LAN

May also be shown as 4000005900000000 or 0x4000005900000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0089

SNMP Trap ID:

Automatically notify Support: No

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].

Explanation: A user configured USB-LAN port forwarding

May also be shown as 4000005a00000000 or 0x4000005a00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0090

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000005b-00000000 Secure Web services (HTTPS) [arg1] by user [arg2].

Explanation: A user enables or disables Secure web services

May also be shown as 4000005b00000000 or 0x4000005b00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0091

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000005c-00000000 Secure CIM/XML(HTTPS) [arg1] by user [arg2].

Explanation: A user enables or disables Secure CIM/XML services

May also be shown as 4000005c00000000 or 0x4000005c00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0092

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000005d-00000000 Secure LDAP [arg1] by user [arg2].

Explanation: A user enables or disables Secure LDAP services

May also be shown as 4000005d00000000 or 0x4000005d00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0093

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000005e-00000000 SSH [arg1] by user [arg2].

Explanation: A user enables or disables SSH services

May also be shown as 4000005e00000000 or 0x4000005e00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0094

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000005f-00000000 Server timeouts set by user [arg1]: EnableOSWatchdog=[arg2], OSWatchdogTimout=[arg3], EnableLoaderWatchdog=[arg4], LoaderTimeout=[arg5].

Explanation: A user configures Server Timeouts

May also be shown as 4000005f00000000 or 0x4000005f00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0095

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000060-00000000 License key for [arg1] added by user [arg2].

Explanation: A user installs License Key

May also be shown as 4000006000000000 or 0x4000006000000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0096

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000061-00000000 License key for [arg1] removed by user [arg2].

Explanation: A user removes a License Key

May also be shown as 4000006100000000 or 0x4000006100000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0097

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000062-00000000 Global Login General Settings set by user [arg1]: AuthenticationMethod=[arg2], LockoutPeriod=[arg3], SessionTimeout=[arg4].

Explanation: A user changes the Global Login General Settings

May also be shown as 4000006200000000 or 0x4000006200000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0098

SNMP Trap ID:

Automatically notify Support: No

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].

Explanation: A user changes the Global Login Account Security Settings to Legacy

May also be shown as 4000006300000000 or 0x4000006300000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0099

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000064-00000000 User [arg1] created.

Explanation: A user account was created

May also be shown as 4000006400000000 or 0x4000006400000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0100

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000065-00000000 User [arg1] removed..

Explanation: A user account was deleted

May also be shown as 4000006500000000 or 0x4000006500000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0101

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000066-00000000 User [arg1] password modified.

Explanation: A user account was changed

May also be shown as 4000006600000000 or 0x4000006600000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0102

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000067-00000000 User [arg1] role set to [arg2].

Explanation: A user account role assigned

May also be shown as 4000006700000000 or 0x4000006700000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0103

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000068-00000000 User [arg1] custom privileges set: [arg2].

Explanation: User account priveleges assigned

May also be shown as 4000006800000000 or 0x4000006800000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0104

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000069-00000000 User [arg1] for SNMPv3 set: AuthenticationProtocol=[arg2], PrivacyProtocol=[arg3], AccessType=[arg4], HostforTraps=[arg5].

Explanation: User account SNMPv3 settings changed

May also be shown as 4000006900000000 or 0x4000006900000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0105

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000006a-00000000 SSH Client key added for user [arg1].

Explanation: User locally defined an SSH Client key

May also be shown as 4000006a00000000 or 0x4000006a00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0106

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000006b-00000000 SSH Client key imported for user [arg1] from [arg2].

Explanation: User imported an SSH Client key

May also be shown as 4000006b00000000 or 0x4000006b00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0107

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000006c-00000000 SSH Client key removed from user [arg1].

Explanation: User removed an SSH Client key

May also be shown as 4000006c00000000 or 0x4000006c00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0108

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000006d-00000000 Management Controller [arg1]: Configuration saved to a file by user [arg2].

Explanation: A user saves a Management Controller configuration to a file.

May also be shown as 4000006d00000000 or 0x4000006d00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0109

SNMP Trap ID:

Automatically notify Support: No

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].

Explanation: A user changes the Global Event Notification settings.

May also be shown as 4000006e00000000 or 0x4000006e00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0110

SNMP Trap ID:

Automatically notify Support: No

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].

Explanation: A user adds or updates an Alert Recipient

May also be shown as 4000006f00000000 or 0x4000006f00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0111

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000070-00000000 SNMP Traps enabled by user [arg1]: EnabledAlerts=[arg2], AllowedFilters=[arg3] .

Explanation: A user enabled the SNMP Traps configuration

May also be shown as 4000007000000000 or 0x4000007000000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0112

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000071-00000000 The power cap value changed from [arg1] watts to [arg2] watts by user [arg3].

Explanation: Power Cap values changed by user

May also be shown as 4000007100000000 or 0x4000007100000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0113

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000072-00000000 The minimum power cap value changed from [arg1] watts to [arg2] watts.

Explanation: Minimum Power Cap value changed

May also be shown as 4000007200000000 or 0x4000007200000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0114

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000073-00000000 The maximum power cap value changed from [arg1] watts to [arg2] watts.

Explanation: Maximum Power Cap value changed

May also be shown as 4000007300000000 or 0x4000007300000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0115

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000074-00000000 The soft minimum power cap value changed from [arg1] watts to [arg2] watts.

Explanation: Soft Minimum Power Cap value changed

May also be shown as 4000007400000000 or 0x4000007400000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0116

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000075-00000000 The measured power value exceeded the power cap value.

Explanation: Power exceeded cap

May also be shown as 4000007500000000 or 0x4000007500000000

Severity: Warning

Alert Category: Warning - Power

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0117

SNMP Trap ID: 164

Automatically notify Support: No

User response: Information only; no action is required.

40000076-00000000 The new minimum power cap value exceeded the power cap value.

Explanation: Minimum Power Cap exceeds Power Cap

May also be shown as 4000007600000000 or 0x4000007600000000

Severity: Warning

Alert Category: Warning - Power

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0118

SNMP Trap ID: 164

Automatically notify Support: No

User response: Information only; no action is required.

40000077-00000000 Power capping was activated by user [arg1].

Explanation: Power capping activated by user

May also be shown as 4000007700000000 or 0x4000007700000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0119

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000078-00000000 Power capping was deactivated by user [arg1].

Explanation: Power capping deactivated by user

May also be shown as 4000007800000000 or 0x4000007800000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0120

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000079-00000000 Static Power Savings mode has been turned on by user [arg1].

Explanation: Static Power Savings mode turned on by user

May also be shown as 4000007900000000 or 0x4000007900000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0121

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000007a-00000000 Static Power Savings mode has been turned off by user [arg1].

Explanation: Static Power Savings mode turned off by user

May also be shown as 4000007a00000000 or 0x4000007a00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0122

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000007b-00000000 Dynamic Power Savings mode has been turned on by user [arg1].

Explanation: Dynamic Power Savings mode turned on by user

May also be shown as 4000007b00000000 or 0x4000007b00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0123

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000007c-00000000 Dynamic Power Savings mode has been turned off by user [arg1].

Explanation: Dynamic Power Savings mode turned off by user

May also be shown as 4000007c00000000 or 0x4000007c00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0124

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000007d-00000000 Power cap and external throttling occurred.

Explanation: Power cap and external throttling occurred

May also be shown as 4000007d00000000 or 0x4000007d00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0125

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000007e-00000000 External throttling occurred .

Explanation: External throttling occurred

May also be shown as 4000007e00000000 or 0x4000007e00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0126

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

4000007f-00000000 Power cap throttling occurred.

Explanation: Power cap throttling occurrred

May also be shown as 4000007f00000000 or 0x4000007f00000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0127

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000080-00000000 Remote Control session started by user [arg1] in [arg2] mode.

Explanation: Remote Control session started

May also be shown as 4000008000000000 or 0x4000008000000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0128

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000081-00000000 PXE boot requested by user [arg1].

Explanation: PXE boot requested

May also be shown as 4000008100000000 or 0x4000008100000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0129

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000082-00000000 The measured power value has returned below the power cap value.

Explanation: Power exceeded cap recovered

May also be shown as 4000008200000000 or 0x4000008200000000

Severity: Info

Alert Category: Warning - Power

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0130

SNMP Trap ID: 164

Automatically notify Support: No

User response: Information only; no action is required.

40000083-00000000 The new minimum power cap value has returned below the power cap value.

Explanation: Minimum Power Cap exceeds Power Cap recovered

May also be shown as 4000008300000000 or 0x4000008300000000

Severity: Info

Alert Category: Warning - Power

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0131

SNMP Trap ID: 164

Automatically notify Support: No

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.

Explanation: A mismatch of IMM firmware has been detected between nodes

May also be shown as 4000008400000000 or 0x4000008400000000

Severity: Error

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0132

SNMP Trap ID: 22

Automatically notify Support: No

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.

Explanation: A mismatch of FPGA firmware has been detected between nodes

May also be shown as 4000008500000000 or 0x4000008500000000

Severity: Error

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0133

SNMP Trap ID: 22

Automatically notify Support: No

User response: Attempt to flash the FPGA firmware to the same level on all nodes.

40000086-00000000 Test Call Home Generated by user [arg1].

Explanation: Test Call Home generated by user.

May also be shown as 4000008600000000 or 0x4000008600000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0134

SNMP Trap ID:

Automatically notify Support: Yes

User response: Information only; no action is required.

40000087-00000000 Manual Call Home by user [arg1]: [arg2].

Explanation: Manual Call Home by user.

May also be shown as 4000008700000000 or 0x4000008700000000

Severity: Info

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0135

SNMP Trap ID:

Automatically notify Support: Yes

User response: IBM Support will address the problem.

40000088-00000000 Management Controller [arg1]: Configuration restoration from a file by user [arg2] completed.

Explanation: 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

Alert Category: none

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0136

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required.

40000089-00000000 Management Controller [arg1]: Configuration restoration from a file by user [arg2] failed to complete.

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0137

SNMP Trap ID: 22

Automatically notify Support: No

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.

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0138

SNMP Trap ID: 22

Automatically notify Support: No

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.

Explanation: 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

Alert Category: System - IMM Network event

Serviceable: No

CIM Information: Prefix: IMM and **ID:** 0139

SNMP Trap ID: 37

Automatically notify Support: No

User response: Information only; no action is required.

80010002-0701ffff Numeric sensor [NumericSensorElementName] going low (lower non-critical) has asserted. (CMOS Battery)

Explanation: 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

Alert Category: Warning - Voltage

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0476

SNMP Trap ID: 13

Automatically notify Support: No

User response: Replace the system battery.

80010202-0701ffff Numeric sensor [NumericSensorElementName] going low (lower critical) has asserted.

Explanation: 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

Alert Category: Critical - Voltage

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0480

SNMP Trap ID: 1

Automatically notify Support: Yes

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 1A/1B Tach)

Explanation: 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

Alert Category: Critical - Fan Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0480

SNMP Trap ID: 11

Automatically notify Support: No

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 2A/2B Tach)

Explanation: 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

Alert Category: Critical - Fan Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0480

SNMP Trap ID: 11

Automatically notify Support: No

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 3A/3B Tach)

Explanation: 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

Alert Category: Critical - Fan Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0480

SNMP Trap ID: 11

Automatically notify Support: No

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 4A/4B Tach)

Explanation: 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

Alert Category: Critical - Fan Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0480

SNMP Trap ID: 11

Automatically notify Support: No

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 5A/5B Tach)

Explanation: 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

Alert Category: Critical - Fan Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0480

SNMP Trap ID: 11

Automatically notify Support: No

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 6A/6B Tach)

Explanation: 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

Alert Category: Critical - Fan Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0480

SNMP Trap ID: 11

Automatically notify Support: No

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)

80010204-1d07ffff Numeric sensor [NumericSensorElementName] going low (lower critical) has asserted. (Fan 7A/7B Tach)

Explanation: 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 800102041d07ffff or 0x800102041d07ffff

Severity: Error

Alert Category: Critical - Fan Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0480

SNMP Trap ID: 11

Automatically notify Support: No

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)

80010204-1d08ffff Numeric sensor [NumericSensorElementName] going low (lower critical) has asserted. (Fan 8A/8B Tach)

Explanation: 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 800102041d08ffff or 0x800102041d08ffff

Severity: Error

Alert Category: Critical - Fan Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0480

SNMP Trap ID: 11

Automatically notify Support: No

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)

80010701-0f01ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has asserted. (REAR BP Temp A)

Explanation: 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 800107010f01ffff or 0x800107010f01ffff

Severity: Warning

Alert Category: Warning - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0490

SNMP Trap ID: 12

Automatically notify Support: No

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.

80010701-0f02ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has asserted. (REAR BP Temp B)

Explanation: 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 800107010f02ffff or 0x800107010f02ffff

Severity: Warning

Alert Category: Warning - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0490

SNMP Trap ID: 12

Automatically notify Support: No

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.

80010701-1001ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has asserted. (PCI 1 Amb Temp)

Explanation: 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 800107011001ffff or 0x800107011001ffff

Severity: Warning

Alert Category: Warning - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0490

SNMP Trap ID: 12

Automatically notify Support: No

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 system board.

RAID Amb Temp : RR PCI1 Amb Temp :

80010701-1002ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has asserted. (PCI 2 Amb Temp)

Explanation: 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 800107011002ffff or 0x800107011002ffff

Severity: Warning

Alert Category: Warning - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0490

SNMP Trap ID: 12

Automatically notify Support: No

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 system board.

RR PCI2 Amb Temp :

80010701-1003ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has asserted. (PCI 3 Amb Temp)

Explanation: 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 800107011003ffff or 0x800107011003ffff

Severity: Warning

Alert Category: Warning - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0490

SNMP Trap ID: 12

Automatically notify Support: No

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 system board.

RR PCI3 Amb Temp :

80010701-1301ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has asserted. (PSU 1 Amb Temp)

Explanation: 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 800107011301ffff or 0x800107011301ffff

Severity: Warning

Alert Category: Warning - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0490

SNMP Trap ID: 12

Automatically notify Support: No

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.

80010701-1401ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has asserted. (CPU1 VR Temp)

Explanation: 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

Alert Category: Warning - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0490

SNMP Trap ID: 12

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Warning - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0490

SNMP Trap ID: 12

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Warning - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0490

SNMP Trap ID: 12

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Warning - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0490

SNMP Trap ID: 12

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Warning - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0490

SNMP Trap ID: 12

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Warning - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0490

SNMP Trap ID: 12

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Warning - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0490

SNMP Trap ID: 12

Automatically notify Support: No

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.

80010701-3701ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has asserted. (Ambient Temp)

Explanation: 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 800107013701ffff or 0x800107013701ffff

Severity: Warning

Alert Category: Warning - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0490

SNMP Trap ID: 12

Automatically notify Support: No

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.

80010901-0f01ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (REAR BP Temp A)

Explanation: 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 800109010f01ffff or 0x800109010f01ffff

Severity: Error

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0494

SNMP Trap ID: 0

Automatically notify Support: No

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.

80010901-0f02ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (REAR BP Temp B)

Explanation: 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 800109010f02ffff or 0x800109010f02ffff

Severity: Error

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0494

SNMP Trap ID: 0

Automatically notify Support: No

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.

80010901-1001ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (PCI 1 Amb Temp)

Explanation: 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 800109011001ffff or 0x800109011001ffff

Severity: Error

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0494

SNMP Trap ID: 0

Automatically notify Support: No

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.

80010901-1002ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (PCI 2 Amb Temp)

Explanation: 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 800109011002ffff or 0x800109011002ffff

Severity: Error

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0494

SNMP Trap ID: 0

Automatically notify Support: No

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.

80010901-1003ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (PCI 3 Amb Temp)

Explanation: 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 800109011003ffff or 0x800109011003ffff

Severity: Error

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0494

SNMP Trap ID: 0

Automatically notify Support: No

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.

80010901-1301ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (PSU 1 Amb Temp)

Explanation: 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 800109011301ffff or 0x800109011301ffff

Severity: Error

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0494

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0494

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0494

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0494

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0494

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0494

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0494

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0494

SNMP Trap ID: 0

Automatically notify Support: No

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.

80010901-3701ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (Ambient Temp)

Explanation: 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 800109013701ffff or 0x800109013701ffff

Severity: Error

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0494

SNMP Trap ID: 0

Automatically notify Support: No

User response:

1. 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.

Explanation: 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

Alert Category: Critical - Voltage

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0494

SNMP Trap ID: 1

Automatically notify Support: Yes

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)

80010b01-0f01ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (REAR BP Temp A)

Explanation: 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 80010b010f01ffff or 0x80010b010f01ffff

Severity: Error

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0498

SNMP Trap ID: 0

Automatically notify Support: No

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.

80010b01-0f02ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (REAR BP Temp B)

Explanation: 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 80010b010f02ffff or 0x80010b010f02ffff

Severity: Error

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0498

SNMP Trap ID: 0

Automatically notify Support: No

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.

80010b01-1001ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (PCI 1 Amb Temp)

Explanation: 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 80010b011001ffff or 0x80010b011001ffff

Severity: Error

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0498

SNMP Trap ID: 0

Automatically notify Support: No

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.

80010b01-1002ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (PCI 2 Amb Temp)

Explanation: 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 80010b011002ffff or 0x80010b011002ffff

Severity: Error

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0498

SNMP Trap ID: 0

Automatically notify Support: No

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.

80010b01-1003ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (PCI 3 Amb Temp)

Explanation: 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 80010b011003ffff or 0x80010b011003ffff

Severity: Error

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0498

SNMP Trap ID: 0

Automatically notify Support: No

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.

80010b01-1301ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (PSU 1 Amb Temp)

Explanation: 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 80010b011301ffff or 0x80010b011301ffff

Severity: Error

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0498

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0498

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0498

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0498

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0498

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0498

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0498

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0498

SNMP Trap ID: 0

Automatically notify Support: No

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.

80010b01-3701ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (Ambient Temp)

Explanation: 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 80010b013701ffff or 0x80010b013701ffff

Severity: Error

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0498

SNMP Trap ID: 0

Automatically notify Support: No

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 system board.

80030006-2101ffff Sensor [SensorElementName] has deasserted. (Sig Verify Fail)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0509

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

80030012-2301ffff Sensor [SensorElementName] has deasserted. (OS RealTime Mod)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0509

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

80030108-1301ffff Sensor [SensorElementName] has asserted. (PS Heavy Load)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0508

SNMP Trap ID:

Automatically notify Support: No

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.

8003010c-2581ffff Sensor [SensorElementName] has asserted. (Non-Auth DIMMs)

Explanation: This message is for the use case when an implementation has detected a Sensor has asserted.

May also be shown as 8003010c2581ffff or 0x8003010c2581ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0508

SNMP Trap ID:

Automatically notify Support: No

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.

8003010f-2101ffff Sensor [SensorElementName] has asserted. (IMM FW Corrupted)

Explanation: This message is for the use case when an implementation has detected a Sensor has asserted.

May also be shown as 8003010f2101ffff or 0x8003010f2101ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0508

SNMP Trap ID:

Automatically notify Support: No

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.

80030112-0601ffff Sensor [SensorElementName] has asserted. (SMM Mode)

Explanation: This message is for the use case when an implementation has detected a Sensor has asserted.

May also be shown as 800301120601ffff or 0x800301120601ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0508

SNMP Trap ID:

Automatically notify Support: No

User response: Information only; no action is required. SMM Monitor :

8007000d-2582ffff Sensor [SensorElementName] has transitioned to normal state. (RAID Vol State)

Explanation: This message is for the use case when an implementation has detected a Sensor transition to the normal state.

May also be shown as 8007000d2582ffff or 0x8007000d2582ffff

Severity: Info

Alert Category: Warning - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0518

SNMP Trap ID: 60

Automatically notify Support: No

User response: No action; information only.

80070101-0c01ffff Sensor [SensorElementName] has transitioned from normal to non-critical state. (Ambient Status)

Explanation: 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 800701010c01ffff or 0x800701010c01ffff

Severity: Warning

Alert Category: Warning - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0520

SNMP Trap ID: 12

Automatically notify Support: No

User response:

1. Check the microprocessor installed is Intel E5-2690.
2. Reduce the ambient temperature under 27 Celsius degree.

80070101-2c01ffff Sensor [SensorElementName] has transitioned from normal to non-critical state. (ML2 OverTemp)

Explanation: 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 800701012c01ffff or 0x800701012c01ffff

Severity: Warning

Alert Category: Warning - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0520

SNMP Trap ID: 12

Automatically notify Support: No

User response: None

8007010d-2582ffff Sensor [SensorElementName] has transitioned from normal to non-critical state. (RAID Vol State)

Explanation: 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 8007010d2582ffff or 0x8007010d2582ffff

Severity: Warning

Alert Category: Warning - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0520

SNMP Trap ID: 60

Automatically notify Support: No

User response: None

8007010f-2201ffff Sensor [SensorElementName] has transitioned from normal to non-critical state. (GPT Status)

Explanation: 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

Alert Category: Warning - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0520

SNMP Trap ID: 60

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Warning - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0520

SNMP Trap ID: 60

Automatically notify Support: No

User response: Complete the following step to solve PCI I/O resource errors:

1. Go to F1 Setup-> System Settings-> Device and I/O ports-> PCI 64 bit Resource and choose enable.

80070112-0101ffff Sensor [SensorElementName] has transitioned from normal to non-critical state. (Sys Config Err)

Explanation: 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 800701120101ffff or 0x800701120101ffff

Severity: Warning

Alert Category: Warning - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0520

SNMP Trap ID: 60

Automatically notify Support: No

User response: None

80070114-2201ffff Sensor [SensorElementName] has transitioned from normal to non-critical state. (TPM Phy Pres Set)

Explanation: 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

Alert Category: Warning - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0520

SNMP Trap ID: 60

Automatically notify Support: No

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.

80070128-2e01ffff Sensor [SensorElementName] has transitioned from normal to non-critical state. (ME Recovery)

Explanation: 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 800701282e01ffff or 0x800701282e01ffff

Severity: Warning

Alert Category: Warning - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0520

SNMP Trap ID: 60

Automatically notify Support: No

User response: None

80070201-0301ffff Sensor [SensorElementName] has transitioned to critical from a less severe state. (CPU 1 OverTemp)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0522

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0522

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Voltage

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0522

SNMP Trap ID: 1

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Fan Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0522

SNMP Trap ID: 11

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Fan Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0522

SNMP Trap ID: 11

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Power

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0522

SNMP Trap ID: 4

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Power

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0522

SNMP Trap ID: 4

Automatically notify Support: No

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)

8007020d-2582ffff Sensor [SensorElementName] has transitioned to critical from a less severe state. (RAID Vol State)

Explanation: 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 8007020d2582ffff or 0x8007020d2582ffff

Severity: Error

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0522

SNMP Trap ID: 50

Automatically notify Support: No

User response: None

8007020f-2201ffff Sensor [SensorElementName] has transitioned to critical from a less severe state. (TXT ACM Module)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0522

SNMP Trap ID: 50

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0522

SNMP Trap ID: 50

Automatically notify Support: No

User response: Complete the following step to solve PCI I/O resource errors:

1. Go to F1 Setup-> System Settings-> Device and I/O ports-> PCI 64 bit Resource and choose enable.

80070214-2201ffff Sensor [SensorElementName] has transitioned to critical from a less severe state. (TPM Lock)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0522

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0522

SNMP Trap ID: 50

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0522

SNMP Trap ID: 50

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0522

SNMP Trap ID: 50

Automatically notify Support: No

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.

80070228-2e01ffff Sensor [SensorElementName] has transitioned to critical from a less severe state. (IPMB IO Error)

Explanation: 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 800702282e01ffff or 0x800702282e01ffff

Severity: Error

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0522

SNMP Trap ID: 50

Automatically notify Support: No

User response: None ME Error : ME Flash Error :

80070301-0301ffff Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (CPU 1 OverTemp)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0524

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0524

SNMP Trap ID: 0

Automatically notify Support: No

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)

80070301-2c01ffff Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (ML2 OverTemp)

Explanation: 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 800703012c01ffff or 0x800703012c01ffff

Severity: Error

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0524

SNMP Trap ID: 0

Automatically notify Support: No

User response: None

8007030d-2582ffff Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (RAID Vol State)

Explanation: 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 8007030d2582ffff or 0x8007030d2582ffff

Severity: Error

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0524

SNMP Trap ID: 50

Automatically notify Support: No

User response: None

80070608-0a01ffff Sensor [SensorElementName] has transitioned to non-recoverable.

Explanation: 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

Alert Category: Critical - Power

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0530

SNMP Trap ID: 4

Automatically notify Support: No

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.

Explanation: 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

Alert Category: Critical - Power

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0530

SNMP Trap ID: 4

Automatically notify Support: No

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)

80070614-2201ffff Sensor [SensorElementName] has transitioned to non-recoverable. (TPM Phy Pres Set)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0530

SNMP Trap ID: 50

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0536

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

80080128-2101ffff Device [LogicalDeviceElementName] has been added. (Low Security Jmp)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0536

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

800b0008-1301ffff Redundancy [RedundancySetElementName] has been restored. (Power Unit)

Explanation: 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

Alert Category: Warning - Redundant Power Supply

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0561

SNMP Trap ID: 10

Automatically notify Support: No

User response: No action; information only.

800b0108-1301ffff Redundancy Lost for [RedundancySetElementName] has asserted. (Power Unit)

Explanation: This message is for the use case when Redundancy Lost has asserted.

May also be shown as 800b01081301ffff or 0x800b01081301ffff

Severity: Error

Alert Category: Critical - Redundant Power Supply

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0802

SNMP Trap ID: 9

Automatically notify Support: No

User response:

1. Check the LEDs for both power supplies.
2. Follow the actions in Power-supply LEDs.

800b010a-1e81ffff Redundancy Lost for [RedundancySetElementName] has asserted. (Fan Zone 1)

Explanation: This message is for the use case when Redundancy Lost has asserted.

May also be shown as 800b010a1e81ffff or 0x800b010a1e81ffff

Severity: Error

Alert Category: Critical - Fan Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0802

SNMP Trap ID: 11

Automatically notify Support: No

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)

800b010a-1e82ffff Redundancy Lost for [RedundancySetElementName] has asserted. (Fan Zone 2)

Explanation: This message is for the use case when Redundancy Lost has asserted.

May also be shown as 800b010a1e82ffff or 0x800b010a1e82ffff

Severity: Error

Alert Category: Critical - Fan Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0802

SNMP Trap ID: 11

Automatically notify Support: No

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)

Explanation: This message is for the use case when Redundancy Lost has asserted.

May also be shown as 800b010c2581ffff or 0x800b010c2581ffff

Severity: Error

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0802

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Warning - Redundant Power Supply

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0806

SNMP Trap ID: 10

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0806

SNMP Trap ID: 43

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Redundant Power Supply

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0810

SNMP Trap ID: 9

Automatically notify Support: No

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-1e81ffff Non-redundant:Insufficient Resources for [RedundancySetElementName] has asserted. (Fan Zone 1)

Explanation: This message is for the use case when a Redundancy Set has transitioned to Non-redundant:Insufficient Resources.

May also be shown as 800b050a1e81ffff or 0x800b050a1e81ffff

Severity: Error

Alert Category: Critical - Fan Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0810

SNMP Trap ID: 11

Automatically notify Support: No

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)

800b050a-1e82ffff Non-redundant:Insufficient Resources for [RedundancySetElementName] has asserted. (Fan Zone 2)

Explanation: This message is for the use case when a Redundancy Set has transitioned to Non-redundant:Insufficient Resources.

May also be shown as 800b050a1e82ffff or 0x800b050a1e82ffff

Severity: Error

Alert Category: Critical - Fan Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0810

SNMP Trap ID: 11

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0810

SNMP Trap ID: 41

Automatically notify Support: No

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.

806f0007-0301ffff [ProcessorElementName] has Failed with IERR. (CPU 1)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0042

SNMP Trap ID: 40

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0042

SNMP Trap ID: 40

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0084

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f0008-0a02ffff [PowerSupplyElementName] has been added to container [PhysicalPackageElementName]. (Power Supply 2)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0084

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f0009-1301ffff [PowerSupplyElementName] has been turned off. (Host Power)

Explanation: 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

Alert Category: System - Power Off

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0106

SNMP Trap ID: 23

Automatically notify Support: No

User response: No action; information only.

806f000d-0400ffff The Drive [StorageVolumeElementName] has been added. (Drive 0)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0162

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

806f000d-0401ffff The Drive [StorageVolumeElementName] has been added. (Drive 1)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0162

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

806f000d-0402ffff The Drive [StorageVolumeElementName] has been added. (Drive 2)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0162

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

806f000d-0403ffff The Drive [StorageVolumeElementName] has been added. (Drive 3)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0162

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

806f000d-0404ffff The Drive [StorageVolumeElementName] has been added. (Drive 4)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0162

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

806f000d-0405ffff The Drive [StorageVolumeElementName] has been added. (Drive 5)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0162

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

806f000d-0406ffff The Drive [StorageVolumeElementName] has been added. (Drive 6)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0162

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

806f000d-0407ffff The Drive [StorageVolumeElementName] has been added. (Drive 7)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0162

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

806f000d-0408ffff The Drive [StorageVolumeElementName] has been added. (Drive 8)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0162

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

806f000d-0409ffff The Drive [StorageVolumeElementName] has been added. (Drive 9)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0162

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

806f000d-040affff The Drive [StorageVolumeElementName] has been added. (Drive 10)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0162

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

806f000d-040bffff The Drive [StorageVolumeElementName] has been added. (Drive 11)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0162

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

806f000d-040cffff The Drive [StorageVolumeElementName] has been added. (Drive 12)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0162

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

806f000d-040dffff The Drive [StorageVolumeElementName] has been added. (Drive 13)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0162

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

806f000f-220101ff The System [ComputerSystemElementName] has detected no memory in the system. (ABR Status)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0794

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0132

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0770

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0795

SNMP Trap ID: 50

Automatically notify Support: No

User response: This is a UEFI detected event. The UEFI diagnostic 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-220107ff The System [ComputerSystemElementName] encountered firmware error - unrecoverable keyboard failure. (ABR Status)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0764

SNMP Trap ID: 50

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0766

SNMP Trap ID: 50

Automatically notify Support: No

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)

Explanation: Firmware BIOS (ROM) corruption was detected on the system during POST.

May also be shown as 806f000f22010bff or 0x806f000f22010bff

Severity: Info

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0850

SNMP Trap ID: 40

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0050

SNMP Trap ID: 40

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0184

SNMP Trap ID: 50

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0222

SNMP Trap ID: 50

Automatically notify Support: No

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.

806f001e-2201ffff No bootable media available for system [ComputerSystemElementName]. (No Boot Device)

Explanation: This message is for the use case when an implementation has detected a System with No Bootable Media.

May also be shown as 806f001e2201ffff or 0x806f001e2201ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0286

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f0021-2201ffff Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (No Op ROM Space)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0330

SNMP Trap ID: 50

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0330

SNMP Trap ID: 50

Automatically notify Support: Yes

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. One of PCI Error :

806f0021-2c01ffff Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (ML2 Card Fault)

Explanation: This message is for the use case when an implementation has detected a Fault in a slot.

May also be shown as 806f00212c01ffff or 0x806f00212c01ffff

Severity: Error

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0330

SNMP Trap ID: 50

Automatically notify Support: Yes

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. Replace the affected adapters.
5. Replace the riser card.
6. (Trained service technicians only) Replace the system board.

806f0021-3001ffff Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (Internal RAID)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0330

SNMP Trap ID: 50

Automatically notify Support: Yes

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. Replace the affected adapters.
5. Replace the riser card.
6. (Trained service technicians only) Replace the system board.

PCI 1 :

806f0021-3002ffff Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (PCI 2)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0330

SNMP Trap ID: 50

Automatically notify Support: Yes

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. Replace the affected 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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0330

SNMP Trap ID: 50

Automatically notify Support: Yes

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. Replace the affected adapters.
5. Replace the riser card.
6. (Trained service technicians only) Replace the system board.

806f0023-2101ffff Watchdog Timer expired for [WatchdogElementName]. (IPMI Watchdog)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0368

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f0028-2101ffff Sensor [SensorElementName] is unavailable or degraded on management system [ComputerSystemElementName]. (TPM Cmd Failures)

Explanation: 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

Alert Category: Warning - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0398

SNMP Trap ID: 60

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0036

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0036

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Power

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0086

SNMP Trap ID: 4

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Power

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0086

SNMP Trap ID: 4

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0108

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f010c-2001ffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.

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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-2002ffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 2)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-2003ffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 3)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-2004ffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 4)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-2005ffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-2006ffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 6)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.

3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-2007ffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 7)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-2008ffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 8)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-2009ffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 9)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-200affff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 10)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-200bffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.

3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-200cffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-200dffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 13)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-200effff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 14)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-200fffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-2010ffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 16)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.

3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-2011ffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 17)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-2012ffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 18)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-2013ffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 19)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-2014ffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 20)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-2015ffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 21)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.

3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-2016ffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 22)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-2017ffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 23)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-2018ffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 24)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (Trained Service technician only) Replace the affected microprocessor.

806f010c-2581ffff Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (All DIMMS)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0138

SNMP Trap ID: 41

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the problem follows the DIMM, replace the failing DIMM.
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 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 technician only) Replace the affected microprocessor.
8. 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.
9. (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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0164

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0164

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0164

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0164

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0164

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0164

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0164

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0164

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0164

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0164

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0164

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0164

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0164

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0164

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: System - Boot failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0186

SNMP Trap ID: 25

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0224

SNMP Trap ID: 50

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0224

SNMP Trap ID: 50

Automatically notify Support: No

User response:

1. Reseat the microprocessor, and then restart the server.
2. Replace microprocessor n. (n = microprocessor number)

806f011b-0701ffff The connector [PhysicalConnectorElementName] has encountered a configuration error. (Front USB)

Explanation: This message is for the use case when an implementation has detected an Interconnect Configuration Error.

May also be shown as 806f011b0701ffff or 0x806f011b0701ffff

Severity: Error

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0266

SNMP Trap ID: 50

Automatically notify Support: Yes

User response: If the specified sensor is front USB connector, reset the front USB cable on the system board. If the specified sensor is front video connector, reset the front video cable in the system board. If the specified sensor is PwrPaddle cable, complete the following steps until problem is solved:

1. Reseat the power paddle cable on the system board.
2. Replace the power paddle cable.
3. (Trained technician only) Replace the supercap n. (n = supercap number)
4. (Trained technician only) Replace the system board.

Front Video :

806f011b-0c01ffff The connector [PhysicalConnectorElementName] has encountered a configuration error. (FP LCD Cable)

Explanation: This message is for the use case when an implementation has detected an Interconnect Configuration Error.

May also be shown as 806f011b0c01ffff or 0x806f011b0c01ffff

Severity: Error

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0266

SNMP Trap ID: 50

Automatically notify Support: Yes

User response: If the specified sensor is front USB connector, reset the front USB cable on the system board. If the specified sensor is front video connector, reset the front video cable in the system board. If the specified sensor is PwrPaddle cable, complete the following steps until problem is solved:

1. Reseat the power paddle cable on the system board.
2. Replace the power paddle cable.
3. (Trained technician only) Replace the supercap n. (n = supercap number)
4. (Trained technician only) Replace the system board.

806f0123-2101ffff Reboot of system [ComputerSystemElementName] initiated by [WatchdogElementName]. (IPMI Watchdog)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0370

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f0125-0c01ffff [ManagedElementName] detected as absent. (Front Panel)

Explanation: This message is for the use case when an implementation has detected a Managed Element is Absent.

May also be shown as 806f01250c01ffff or 0x806f01250c01ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0392

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f0125-1001ffff [ManagedElementName] detected as absent. (PCI Riser 1)

Explanation: This message is for the use case when an implementation has detected a Managed Element is Absent.

May also be shown as 806f01251001ffff or 0x806f01251001ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0392

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f0125-1002ffff [ManagedElementName] detected as absent. (PCI Riser 2)

Explanation: This message is for the use case when an implementation has detected a Managed Element is Absent.

May also be shown as 806f01251002ffff or 0x806f01251002ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0392

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f0125-2c01ffff [ManagedElementName] detected as absent. (ML2 Card)

Explanation: This message is for the use case when an implementation has detected a Managed Element is Absent.

May also be shown as 806f01252c01ffff or 0x806f01252c01ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0392

SNMP Trap ID:

Automatically notify Support: No

User response: Please ensure the PCI riser 1 has been installed correctly.

806f0207-0301ffff [ProcessorElementName] has Failed with FRB1/BIST condition. (CPU 1)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0044

SNMP Trap ID: 40

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0044

SNMP Trap ID: 40

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0044

SNMP Trap ID: 40

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0168

SNMP Trap ID: 27

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0168

SNMP Trap ID: 27

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0168

SNMP Trap ID: 27

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0168

SNMP Trap ID: 27

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0168

SNMP Trap ID: 27

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0168

SNMP Trap ID: 27

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0168

SNMP Trap ID: 27

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0168

SNMP Trap ID: 27

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0168

SNMP Trap ID: 27

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0168

SNMP Trap ID: 27

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0168

SNMP Trap ID: 27

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0168

SNMP Trap ID: 27

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0168

SNMP Trap ID: 27

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0168

SNMP Trap ID: 27

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0372

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f0308-0a01ffff [PowerSupplyElementName] has lost input. (Power Supply 1)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0100

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0100

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.
6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.

6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.
6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.

3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.
6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.
6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.
6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.

6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.
6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.

3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.
6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.
6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.
6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.

6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.
6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.

3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.
6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.
6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.
6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.

6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.
6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.

3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.
6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.
6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.
6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.

6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.
6. (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.
7. (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.
8. (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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.

3. Make sure that the DIMMs are firmly seated and no foreign material is found in the DIMM connector. Then, retry with the same DIMM.
4. If the problem is related to a DIMM, replace the failing DIMM indicated by the error LEDs.
5. 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.
6. (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.
7. (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.
8. (Trained service technician only) If the problem is related to microprocessor socket pins, replace the system board.

806f030c-2581ffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (All DIMMS)

Explanation: This message is for the use case when an implementation has detected a Memory Scrub failure.

May also be shown as 806f030c2581ffff or 0x806f030c2581ffff

Severity: Error

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0136

SNMP Trap ID: 41

Automatically notify Support: No

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. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. Manually re-enable all affected DIMMs.
4. 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. If the problem follows the DIMM, replace the failing DIMM.
6. (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.
7. (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.
8. (Trained technician only) Replace the affected microprocessor.

One of the DIMMs :

806f030d-0400ffff Hot Spare enabled for [ComputerSystemElementName]. (Drive 0)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d0400ffff or 0x806f030d0400ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0170

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f030d-0401ffff Hot Spare enabled for [ComputerSystemElementName]. (Drive 1)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d0401ffff or 0x806f030d0401ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0170

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f030d-0402ffff Hot Spare enabled for [ComputerSystemElementName]. (Drive 2)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d0402ffff or 0x806f030d0402ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0170

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f030d-0403ffff Hot Spare enabled for [ComputerSystemElementName]. (Drive 3)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d0403ffff or 0x806f030d0403ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0170

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f030d-0404ffff Hot Spare enabled for [ComputerSystemElementName]. (Drive 4)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d0404ffff or 0x806f030d0404ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0170

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f030d-0405ffff Hot Spare enabled for [ComputerSystemElementName]. (Drive 5)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d0405ffff or 0x806f030d0405ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0170

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f030d-0406ffff Hot Spare enabled for [ComputerSystemElementName]. (Drive 6)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d0406ffff or 0x806f030d0406ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0170

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f030d-0407ffff Hot Spare enabled for [ComputerSystemElementName]. (Drive 7)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d0407ffff or 0x806f030d0407ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0170

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f030d-0408ffff Hot Spare enabled for [ComputerSystemElementName]. (Drive 8)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d0408ffff or 0x806f030d0408ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0170

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f030d-0409ffff Hot Spare enabled for [ComputerSystemElementName]. (Drive 9)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d0409ffff or 0x806f030d0409ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0170

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f030d-040affff Hot Spare enabled for [ComputerSystemElementName]. (Drive 10)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d040affff or 0x806f030d040affff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0170

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f030d-040bffff Hot Spare enabled for [ComputerSystemElementName]. (Drive 11)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d040bffff or 0x806f030d040bffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0170

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f030d-040cffff Hot Spare enabled for [ComputerSystemElementName]. (Drive 12)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d040cffff or 0x806f030d040cffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0170

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f030d-040dffff Hot Spare enabled for [ComputerSystemElementName]. (Drive 13)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d040dffff or 0x806f030d040dffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0170

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f0313-1701ffff A software NMI has occurred on system [ComputerSystemElementName]. (NMI State)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0228

SNMP Trap ID: 50

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0374

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f040c-2001ffff [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 1)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0131

SNMP Trap ID:

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0232

SNMP Trap ID: 50

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0062

SNMP Trap ID: 40

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0062

SNMP Trap ID: 40

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0062

SNMP Trap ID: 40

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-2002ffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 2)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-2003ffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 3)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-2004ffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 4)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-2005ffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-2006ffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 6)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-2007ffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 7)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-2008ffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 8)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-2009ffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 9)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-200affff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 10)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-200bffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-200cffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-200dffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 13)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-200effff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 14)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-200fffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-2010ffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 16)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-2011ffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 17)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-2012ffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 18)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-2013ffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 19)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-2014ffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 20)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-2015ffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 21)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-2016ffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 22)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-2017ffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 23)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-2018ffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 24)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor.

806f050c-2581ffff Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (All DIMMS)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0144

SNMP Trap ID: 43

Automatically notify Support: Yes

User response:

1. Refer to TIP H212293 for minimum code level.
2. Check the IBM support website for an applicable retain tip or firmware update that applies to this memory error.
3. 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.
4. If the error still occurs on the same DIMM, replace the affected DIMM.
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 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 technician only) Replace the affected microprocessor. One of the DIMMs :

806f050d-0400ffff Array [ComputerSystemElementName] is in critical condition. (Drive 0)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0174

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0174

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0174

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0174

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0174

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0174

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0174

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0174

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0174

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0174

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0174

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0174

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0174

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0174

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0234

SNMP Trap ID: 50

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0446

SNMP Trap ID: 50

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0816

SNMP Trap ID: 40

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0816

SNMP Trap ID: 40

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0816

SNMP Trap ID: 40

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Power

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0104

SNMP Trap ID: 4

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0176

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0176

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0176

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0176

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0176

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0176

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0176

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0176

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0176

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0176

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0176

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0176

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0176

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0176

SNMP Trap ID: 5

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0126

SNMP Trap ID: 41

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0178

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f070d-0401ffff Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 1)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0178

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f070d-0402ffff Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 2)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0178

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f070d-0403ffff Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 3)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0178

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f070d-0404ffff Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 4)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0178

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f070d-0405ffff Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 5)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0178

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f070d-0406ffff Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 6)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0178

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f070d-0407ffff Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 7)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0178

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f070d-0408ffff Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 8)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0178

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f070d-0409ffff Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 9)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0178

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f070d-040affff Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 10)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0178

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f070d-040bffff Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 11)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0178

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f070d-040cffff Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 12)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0178

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f070d-040dffff Rebuild in progress for Array in system [ComputerSystemElementName]. (Drive 13)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0178

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f072b-2101ffff A successful software or firmware change was detected on system [ComputerSystemElementName]. (IMM Promotion)

Explanation: This message is for the use case when an implementation has detected a Successful Software or Firmware Change.

May also be shown as 806f072b2101ffff or 0x806f072b2101ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0450

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only. IMM Recovery :

806f072b-2201ffff A successful software or firmware change was detected on system [ComputerSystemElementName]. (Bkup Auto Update)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0450

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only. ROM Recovery :

806f0807-0301ffff [ProcessorElementName] has been Disabled. (CPU 1)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0061

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f0807-0302ffff [ProcessorElementName] has been Disabled. (CPU 2)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0061

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f0807-2584ffff [ProcessorElementName] has been Disabled. (All CPUs)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0061

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only. One of the CPUs :

806f0813-2581ffff A Uncorrectable Bus Error has occurred on system [ComputerSystemElementName]. (DIMMs)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0240

SNMP Trap ID: 50

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0240

SNMP Trap ID: 50

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0240

SNMP Trap ID: 50

Automatically notify Support: Yes

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)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0376

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

806f090c-2001ffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 1)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: System - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0142

SNMP Trap ID: 22

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Warning - CPU

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0038

SNMP Trap ID: 42

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Warning - CPU

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0038

SNMP Trap ID: 42

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0146

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0244

SNMP Trap ID: 50

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0244

SNMP Trap ID: 50

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Warning - Voltage

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0477

SNMP Trap ID: 13

Automatically notify Support: No

User response: No action; information only.

81010202-0701ffff Numeric sensor [NumericSensorElementName] going low (lower critical) has deasserted. (CMOS Battery)

Explanation: 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

Alert Category: Critical - Voltage

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0481

SNMP Trap ID: 1

Automatically notify Support: No

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 1A Tach)

Explanation: 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

Alert Category: Critical - Fan Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0481

SNMP Trap ID: 11

Automatically notify Support: No

User response: No action; information only. Fan 1B Tach :

81010204-1d02ffff Numeric sensor [NumericSensorElementName] going low (lower critical) has deasserted. (Fan 2A Tach)

Explanation: 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

Alert Category: Critical - Fan Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0481

SNMP Trap ID: 11

Automatically notify Support: No

User response: No action; information only. Fan 2B Tach :

81010204-1d03ffff Numeric sensor [NumericSensorElementName] going low (lower critical) has deasserted. (Fan 3A Tach)

Explanation: 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

Alert Category: Critical - Fan Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0481

SNMP Trap ID: 11

Automatically notify Support: No

User response: No action; information only. Fan 3B Tach :

81010204-1d04ffff Numeric sensor [NumericSensorElementName] going low (lower critical) has deasserted. (Fan 4A Tach)

Explanation: 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

Alert Category: Critical - Fan Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0481

SNMP Trap ID: 11

Automatically notify Support: No

User response: No action; information only. Fan 4B Tach :

81010204-1d05ffff Numeric sensor [NumericSensorElementName] going low (lower critical) has deasserted. (Fan 5A Tach)

Explanation: 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

Alert Category: Critical - Fan Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0481

SNMP Trap ID: 11

Automatically notify Support: No

User response: No action; information only. Fan 5B Tach :

81010204-1d06ffff Numeric sensor [NumericSensorElementName] going low (lower critical) has deasserted. (Fan 6A Tach)

Explanation: 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

Alert Category: Critical - Fan Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0481

SNMP Trap ID: 11

Automatically notify Support: No

User response: No action; information only. Fan 6B Tach :

81010204-1d07ffff Numeric sensor [NumericSensorElementName] going low (lower critical) has deasserted. (Fan 7A Tach)

Explanation: 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 810102041d07ffff or 0x810102041d07ffff

Severity: Info

Alert Category: Critical - Fan Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0481

SNMP Trap ID: 11

Automatically notify Support: No

User response: No action; information only. Fan 7B Tach :

81010204-1d08ffff Numeric sensor [NumericSensorElementName] going low (lower critical) has deasserted. (Fan 8A Tach)

Explanation: 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 810102041d08ffff or 0x810102041d08ffff

Severity: Info

Alert Category: Critical - Fan Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0481

SNMP Trap ID: 11

Automatically notify Support: No

User response: No action; information only. Fan 8B Tach :

81010701-0f01ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (REAR BP Temp A)

Explanation: 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 810107010f01ffff or 0x810107010f01ffff

Severity: Info

Alert Category: Warning - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0491

SNMP Trap ID: 12

Automatically notify Support: No

User response: No action; information only.

81010701-0f02ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (REAR BP Temp B)

Explanation: 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 810107010f02ffff or 0x810107010f02ffff

Severity: Info

Alert Category: Warning - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0491

SNMP Trap ID: 12

Automatically notify Support: No

User response: No action; information only.

81010701-1001ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (PCI 1 Amb Temp)

Explanation: 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 8101070111001ffff or 0x8101070111001ffff

Severity: Info

Alert Category: Warning - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0491

SNMP Trap ID: 12

Automatically notify Support: No

User response: No action; information only. RAID Amb Temp : RR PCI1 Amb Temp :

81010701-1002ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (PCI 2 Amb Temp)

Explanation: 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 8101070111002ffff or 0x8101070111002ffff

Severity: Info

Alert Category: Warning - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0491

SNMP Trap ID: 12

Automatically notify Support: No

User response: No action; information only. RR PCI2 Amb Temp :

81010701-1003ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (PCI 3 Amb Temp)

Explanation: 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 810107011003ffff or 0x810107011003ffff

Severity: Info

Alert Category: Warning - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0491

SNMP Trap ID: 12

Automatically notify Support: No

User response: No action; information only. RR PCI3 Amb Temp :

81010701-1301ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (PSU 1 Amb Temp)

Explanation: 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 810107011301ffff or 0x810107011301ffff

Severity: Info

Alert Category: Warning - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0491

SNMP Trap ID: 12

Automatically notify Support: No

User response: No action; information only. PSU 2 Amb Temp :

81010701-1401ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (CPU1 VR Temp)

Explanation: 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

Alert Category: Warning - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0491

SNMP Trap ID: 12

Automatically notify Support: No

User response: No action; information only.

81010701-1402ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (CPU2 VR Temp)

Explanation: 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 8101070114O2ffff or 0x8101070114O2ffff

Severity: Info

Alert Category: Warning - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0491

SNMP Trap ID: 12

Automatically notify Support: No

User response: No action; information only.

81010701-1403ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (DIMM AB VR Temp)

Explanation: 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 8101070114O3ffff or 0x8101070114O3ffff

Severity: Info

Alert Category: Warning - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0491

SNMP Trap ID: 12

Automatically notify Support: No

User response: No action; information only.

81010701-1404ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (DIMM CD VR Temp)

Explanation: 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 8101070114O4ffff or 0x8101070114O4ffff

Severity: Info

Alert Category: Warning - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0491

SNMP Trap ID: 12

Automatically notify Support: No

User response: No action; information only.

81010701-1405ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (DIMM EF VR Temp)

Explanation: 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

Alert Category: Warning - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0491

SNMP Trap ID: 12

Automatically notify Support: No

User response: No action; information only.

81010701-1406ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (DIMM GH VR Temp)

Explanation: 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

Alert Category: Warning - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0491

SNMP Trap ID: 12

Automatically notify Support: No

User response: No action; information only.

81010701-2d01ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (PCH Temp)

Explanation: 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

Alert Category: Warning - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0491

SNMP Trap ID: 12

Automatically notify Support: No

User response: No action; information only.

81010701-3701ffff Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (Ambient Temp)

Explanation: 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 810107013701ffff or 0x810107013701ffff

Severity: Info

Alert Category: Warning - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0491

SNMP Trap ID: 12

Automatically notify Support: No

User response: No action; information only.

81010901-0f01ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (REAR BP Temp A)

Explanation: 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 810109010f01ffff or 0x810109010f01ffff

Severity: Info

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0495

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81010901-0f02ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (REAR BP Temp B)

Explanation: 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 810109010f02ffff or 0x810109010f02ffff

Severity: Info

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0495

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81010901-1001ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (PCI 1 Amb Temp)

Explanation: 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 810109011001ffff or 0x810109011001ffff

Severity: Info

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0495

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only. RAID Amb Temp : RR PCI1 Amb Temp :

81010901-1002ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (PCI 2 Amb Temp)

Explanation: 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 810109011002ffff or 0x810109011002ffff

Severity: Info

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0495

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only. RR PCI2 Amb Temp :

81010901-1003ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (PCI 3 Amb Temp)

Explanation: 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 810109011003ffff or 0x810109011003ffff

Severity: Info

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0495

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only. RR PCI3 Amb Temp :

81010901-1301ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (PSU 1 Amb Temp)

Explanation: 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 810109011301ffff or 0x810109011301ffff

Severity: Info

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: **Prefix:** PLAT and **ID:** 0495

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only. PSU 2 Amb Temp :

81010901-1401ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (CPU1 VR Temp)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: **Prefix:** PLAT and **ID:** 0495

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81010901-1402ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (CPU2 VR Temp)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: **Prefix:** PLAT and **ID:** 0495

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81010901-1403ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (DIMM AB VR Temp)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0495

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81010901-1404ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (DIMM CD VR Temp)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0495

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81010901-1405ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (DIMM EF VR Temp)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0495

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81010901-1406ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (DIMM GH VR Temp)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0495

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81010901-2d01ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (PCH Temp)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0495

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81010901-3701ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (Ambient Temp)

Explanation: 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 810109013701ffff or 0x810109013701ffff

Severity: Info

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0495

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81010902-0701ffff Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (SysBrd 12V)

Explanation: 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

Alert Category: Critical - Voltage

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0495

SNMP Trap ID: 1

Automatically notify Support: No

User response: No action; information only. SysBrd 3.3V : SysBrd 5V :

81010b01-0f01ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (REAR BP Temp A)

Explanation: 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 81010b010f01ffff or 0x81010b010f01ffff

Severity: Info

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0499

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81010b01-0f02ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (REAR BP Temp B)

Explanation: 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 81010b010f02ffff or 0x81010b010f02ffff

Severity: Info

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0499

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81010b01-1001ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (PCI 1 Amb Temp)

Explanation: 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 81010b011001ffff or 0x81010b011001ffff

Severity: Info

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0499

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only. RAID Amb Temp : RR PCI1 Amb Temp :

81010b01-1002ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (PCI 2 Amb Temp)

Explanation: 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 81010b011002ffff or 0x81010b011002ffff

Severity: Info

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0499

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only. RR PCI2 Amb Temp :

81010b01-1003ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (PCI 3 Amb Temp)

Explanation: 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 81010b011003ffff or 0x81010b011003ffff

Severity: Info

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0499

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only. RR PCI3 Amb Temp :

81010b01-1301ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (PSU 1 Amb Temp)

Explanation: 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 81010b011301ffff or 0x81010b011301ffff

Severity: Info

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0499

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only. PSU 2 Amb Temp :

81010b01-1401ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (CPU1 VR Temp)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0499

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81010b01-1402ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (CPU2 VR Temp)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0499

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81010b01-1403ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (DIMM AB VR Temp)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0499

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81010b01-1404ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (DIMM CD VR Temp)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0499

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81010b01-1405ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (DIMM EF VR Temp)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0499

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81010b01-1406ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (DIMM GH VR Temp)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0499

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81010b01-2d01ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (PCH Temp)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0499

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81010b01-3701ffff Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (Ambient Temp)

Explanation: 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 81010b013701ffff or 0x81010b013701ffff

Severity: Info

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0499

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81030006-2101ffff Sensor [SensorElementName] has asserted. (Sig Verify Fail)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0508

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

8103000f-2101ffff Sensor [SensorElementName] has asserted. (IMM FW Corrupted)

Explanation: This message is for the use case when an implementation has detected a Sensor has asserted.

May also be shown as 8103000f2101ffff or 0x8103000f2101ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0508

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

81030012-2301ffff Sensor [SensorElementName] has asserted. (OS RealTime Mod)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0508

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

81030108-1301ffff Sensor [SensorElementName] has deasserted. (PS Heavy Load)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0509

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

8103010c-2581ffff Sensor [SensorElementName] has deasserted. (Non-Auth DIMMs)

Explanation: This message is for the use case when an implementation has detected a Sensor has deasserted.

May also be shown as 8103010c2581ffff or 0x8103010c2581ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0509

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

81030112-0601ffff Sensor [SensorElementName] has deasserted. (SMM Mode)

Explanation: This message is for the use case when an implementation has detected a Sensor has deasserted.

May also be shown as 810301120601ffff or 0x810301120601ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0509

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only. SMM Monitor :

81070101-0c01ffff Sensor [SensorElementName] has deasserted the transition from normal to non-critical state. (Ambient Status)

Explanation: 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 810701010c01ffff or 0x810701010c01ffff

Severity: Info

Alert Category: Warning - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0521

SNMP Trap ID: 12

Automatically notify Support: No

User response: No action; information only.

81070101-2c01ffff Sensor [SensorElementName] has deasserted the transition from normal to non-critical state. (ML2 OverTemp)

Explanation: 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 810701012c01ffff or 0x810701012c01ffff

Severity: Info

Alert Category: Warning - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0521

SNMP Trap ID: 12

Automatically notify Support: No

User response: No action; information only.

8107010d-2582ffff Sensor [SensorElementName] has deasserted the transition from normal to non-critical state. (RAID Vol State)

Explanation: 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 8107010d2582ffff or 0x8107010d2582ffff

Severity: Info

Alert Category: Warning - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0521

SNMP Trap ID: 60

Automatically notify Support: No

User response: No action; information only.

8107010f-2201ffff Sensor [SensorElementName] has deasserted the transition from normal to non-critical state. (GPT Status)

Explanation: 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

Alert Category: Warning - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0521

SNMP Trap ID: 60

Automatically notify Support: No

User response: No action; information only.

8107010f-2582ffff Sensor [SensorElementName] has deasserted the transition from normal to non-critical state. (I/O Resources)

Explanation: 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

Alert Category: Warning - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0521

SNMP Trap ID: 60

Automatically notify Support: No

User response: No action; information only.

81070128-2e01ffff Sensor [SensorElementName] has deasserted the transition from normal to non-critical state. (ME Recovery)

Explanation: 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 810701282e01ffff or 0x810701282e01ffff

Severity: Info

Alert Category: Warning - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0521

SNMP Trap ID: 60

Automatically notify Support: No

User response: No action; information only.

81070201-0301ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (CPU 1 OverTemp)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0523

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81070201-0302ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (CPU 2 OverTemp)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0523

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81070202-0701ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (SysBrd Vol Fault)

Explanation: 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

Alert Category: Critical - Voltage

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0523

SNMP Trap ID: 1

Automatically notify Support: No

User response: No action; information only.

81070204-0a01ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (PS 1 Fan Fault)

Explanation: 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

Alert Category: Critical - Fan Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0523

SNMP Trap ID: 11

Automatically notify Support: No

User response: No action; information only.

81070204-0a02ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (PS 2 Fan Fault)

Explanation: 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

Alert Category: Critical - Fan Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0523

SNMP Trap ID: 11

Automatically notify Support: No

User response: No action; information only.

81070208-0a01ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (PS 1 Therm Fault)

Explanation: 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

Alert Category: Critical - Power

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0523

SNMP Trap ID: 4

Automatically notify Support: No

User response: No action; information only.

81070208-0a02ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (PS 2 Therm Fault)

Explanation: 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

Alert Category: Critical - Power

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0523

SNMP Trap ID: 4

Automatically notify Support: No

User response: No action; information only.

8107020d-2582ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (RAID Vol State)

Explanation: 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 8107020d2582ffff or 0x8107020d2582ffff

Severity: Info

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0523

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only.

8107020f-2201ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (TXT ACM Module)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0523

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only.

8107020f-2582ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (I/O Resources)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0523

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only.

81070214-2201ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (TPM Lock)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0523

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only.

81070219-0701ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (SysBrd Fault)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0523

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only.

8107021b-0301ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (CPU 1 QPILinkErr)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0523

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only.

8107021b-0302ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (CPU 2 QPILinkErr)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0523

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only.

81070228-2e01ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (IPMB IO Error)

Explanation: 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 810702282e01ffff or 0x810702282e01ffff

Severity: Info

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0523

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only. ME Error : ME Flash Error :

81070301-0301ffff Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (CPU 1 OverTemp)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0525

SNMP Trap ID: 0

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0525

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

81070301-2c01ffff Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (ML2 OverTemp)

Explanation: 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 810703012c01ffff or 0x810703012c01ffff

Severity: Info

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0525

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

8107030d-2582ffff Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (RAID Vol State)

Explanation: 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 8107030d2582ffff or 0x8107030d2582ffff

Severity: Info

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0525

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only.

81070608-0a01ffff Sensor [SensorElementName] has deasserted the transition to non-recoverable. (PS1 12V OC Fault)

Explanation: 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

Alert Category: Critical - Power

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0531

SNMP Trap ID: 4

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Power

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0531

SNMP Trap ID: 4

Automatically notify Support: No

User response: No action; information only. PS2 12V OV Fault : PS2 12V UV Fault : PS2 12Vaux Fault :

810b010a-1e81ffff Redundancy Lost for [RedundancySetElementName] has deasserted. (Fan Zone 1)

Explanation: This message is for the use case when Redundacy Lost has deasserted.

May also be shown as 810b010a1e81ffff or 0x810b010a1e81ffff

Severity: Info

Alert Category: Critical - Fan Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0803

SNMP Trap ID: 11

Automatically notify Support: No

User response: No action; information only.

810b010a-1e82ffff Redundancy Lost for [RedundancySetElementName] has deasserted. (Fan Zone 2)

Explanation: This message is for the use case when Redundacy Lost has deasserted.

May also be shown as 810b010a1e82ffff or 0x810b010a1e82ffff

Severity: Info

Alert Category: Critical - Fan Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0803

SNMP Trap ID: 11

Automatically notify Support: No

User response: No action; information only.

810b010c-2581ffff Redundancy Lost for [RedundancySetElementName] has deasserted. (Backup Memory)

Explanation: This message is for the use case when Redundacy Lost has deasserted.

May also be shown as 810b010c2581ffff or 0x810b010c2581ffff

Severity: Info

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0803

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

810b0309-1301ffff Non-redundant:Sufficient Resources from Redundancy Degraded or Fully Redundant for [RedundancySetElementName] has deasserted. (Power Resource)

Explanation: 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

Alert Category: Warning - Redundant Power Supply

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0807

SNMP Trap ID: 10

Automatically notify Support: No

User response: No action; information only.

810b030c-2581ffff Non-redundant:Sufficient Resources from Redundancy Degraded or Fully Redundant for [RedundancySetElementName] has deasserted. (Backup Memory)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0807

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

810b0509-1301ffff Non-redundant:Insufficient Resources for [RedundancySetElementName] has deasserted. (Power Resource)

Explanation: 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

Alert Category: Critical - Redundant Power Supply

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0811

SNMP Trap ID: 9

Automatically notify Support: No

User response: No action; information only.

810b050a-1e81ffff Non-redundant:Insufficient Resources for [RedundancySetElementName] has deasserted. (Fan Zone 1)

Explanation: This message is for the use case when a Redundancy Set has transitioned from Non-redundant:Insufficient Resources.

May also be shown as 810b050a1e81ffff or 0x810b050a1e81ffff

Severity: Info

Alert Category: Critical - Fan Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0811

SNMP Trap ID: 11

Automatically notify Support: No

User response: No action; information only.

810b050a-1e82ffff Non-redundant:Insufficient Resources for [RedundancySetElementName] has deasserted. (Fan Zone 2)

Explanation: This message is for the use case when a Redundancy Set has transitioned from Non-redundant:Insufficient Resources.

May also be shown as 810b050a1e82ffff or 0x810b050a1e82ffff

Severity: Info

Alert Category: Critical - Fan Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0811

SNMP Trap ID: 11

Automatically notify Support: No

User response: No action; information only.

810b050c-2581ffff Non-redundant:Insufficient Resources for [RedundancySetElementName] has deasserted. (Backup Memory)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0811

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f0007-0301ffff [ProcessorElementName] has Recovered from IERR. (CPU 1)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0043

SNMP Trap ID: 40

Automatically notify Support: No

User response: No action; information only.

816f0007-0302ffff [ProcessorElementName] has Recovered from IERR. (CPU 2)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0043

SNMP Trap ID: 40

Automatically notify Support: No

User response: No action; information only.

816f0008-0a01ffff [PowerSupplyElementName] has been removed from container [PhysicalPackageElementName]. (Power Supply 1)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0085

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f0008-0a02ffff [PowerSupplyElementName] has been removed from container [PhysicalPackageElementName]. (Power Supply 2)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0085

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f0009-1301ffff [PowerSupplyElementName] has been turned on. (Host Power)

Explanation: 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

Alert Category: System - Power On

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0107

SNMP Trap ID: 24

Automatically notify Support: No

User response: No action; information only.

816f000d-0400ffff The Drive [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Drive 0)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0163

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0163

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0163

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0163

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0163

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0163

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0163

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0163

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0163

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0163

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0163

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0163

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0163

SNMP Trap ID: 5

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: Yes

CIM Information: Prefix: PLAT and **ID:** 0163

SNMP Trap ID: 5

Automatically notify Support: No

User response:

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. Make sure that the disk firmware and RAID controller and backplane firmware are at the latest level.
3. Check the SAS cable.
4. Replace the hard disk drive.

816f000f-2201ffff The System [ComputerSystemElementName] has detected a POST Error deassertion. (ABR Status)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0185

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only. Firmware Error : Sys Boot Status :

816f0013-1701ffff System [ComputerSystemElementName] has recovered from a diagnostic interrupt. (NMI State)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0223

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only.

816f0021-2201ffff Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (No Op ROM Space)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0331

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only.

816f0021-2582ffff Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (All PCI Error)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0331

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only. One of PCI Error :

816f0021-2c01ffff Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (ML2 Card Fault)

Explanation: 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 816f00212c01ffff or 0x816f00212c01ffff

Severity: Info

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0331

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only.

816f0021-3001ffff Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (Internal RAID)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0331

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only. PCI 1 :

816f0021-3002ffff Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (PCI 2)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0331

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only.

816f0021-3003ffff Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (PCI 3)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0331

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only.

816f0028-2101ffff Sensor [SensorElementName] has returned to normal on management system [ComputerSystemElementName]. (TPM Cmd Failures)

Explanation: 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

Alert Category: Warning - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0399

SNMP Trap ID: 60

Automatically notify Support: No

User response: No action; information only.

816f0107-0301ffff An Over-Temperature Condition has been removed on [ProcessorElementName]. (CPU 1)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0037

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0107-0302ffff An Over-Temperature Condition has been removed on [ProcessorElementName]. (CPU 2)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0037

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0108-0a01ffff [PowerSupplyElementName] has returned to OK status. (Power Supply 1)

Explanation: 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

Alert Category: Critical - Power

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0087

SNMP Trap ID: 4

Automatically notify Support: No

User response: No action; information only.

816f0108-0a02ffff [PowerSupplyElementName] has returned to OK status. (Power Supply 2)

Explanation: 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

Alert Category: Critical - Power

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0087

SNMP Trap ID: 4

Automatically notify Support: No

User response: No action; information only.

816f010c-2001ffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-2002ffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 2)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-2003ffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 3)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-2004ffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 4)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-2005ffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-2006ffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 6)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-2007ffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 7)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-2008ffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 8)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-2009ffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 9)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-200affff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 10)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-200bffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-200cffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-200dffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 13)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-200effff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 14)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-200fffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-2010ffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 16)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-2011ffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 17)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-2012ffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 18)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-2013ffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 19)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-2014ffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 20)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-2015ffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 21)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-2016ffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 22)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-2017ffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 23)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-2018ffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 24)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f010c-2581ffff Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (All DIMMS)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0139

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only. One of the DIMMs :

816f010d-0400ffff The Drive [StorageVolumeElementName] has been enabled. (Drive 0)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0167

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f010d-0401ffff The Drive [StorageVolumeElementName] has been enabled. (Drive 1)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0167

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f010d-0402ffff The Drive [StorageVolumeElementName] has been enabled. (Drive 2)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0167

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f010d-0403ffff The Drive [StorageVolumeElementName] has been enabled. (Drive 3)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0167

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f010d-0404ffff The Drive [StorageVolumeElementName] has been enabled. (Drive 4)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0167

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f010d-0405ffff The Drive [StorageVolumeElementName] has been enabled. (Drive 5)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0167

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f010d-0406ffff The Drive [StorageVolumeElementName] has been enabled. (Drive 6)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0167

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f010d-0407ffff The Drive [StorageVolumeElementName] has been enabled. (Drive 7)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0167

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f010d-0408ffff The Drive [StorageVolumeElementName] has been enabled. (Drive 8)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0167

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f010d-0409ffff The Drive [StorageVolumeElementName] has been enabled. (Drive 9)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0167

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f010d-040affff The Drive [StorageVolumeElementName] has been enabled. (Drive 10)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0167

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f010d-040bffff The Drive [StorageVolumeElementName] has been enabled. (Drive 11)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0167

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f010d-040cffff The Drive [StorageVolumeElementName] has been enabled. (Drive 12)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0167

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f010d-040dffff The Drive [StorageVolumeElementName] has been enabled. (Drive 13)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0167

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f010f-2201ffff The System [ComputerSystemElementName] has recovered from a firmware hang. (Firmware Error)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0187

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only.

816f0113-0301ffff System [ComputerSystemElementName] has recovered from a bus timeout. (CPU 1 PECI)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0225

SNMP Trap ID: 50

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0225

SNMP Trap ID: 50

Automatically notify Support: No

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)

816f011b-0701ffff The connector [PhysicalConnectorElementName] configuration error has been repaired. (Front USB)

Explanation: This message is for the use case when an implementation has detected an Interconnect Configuration was Repaired.

May also be shown as 816f011b0701ffff or 0x816f011b0701ffff

Severity: Info

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0267

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only. Front Video :

816f011b-0c01ffff The connector [PhysicalConnectorElementName] configuration error has been repaired. (FP LCD Cable)

Explanation: This message is for the use case when an implementation has detected an Interconnect Configuration was Repaired.

May also be shown as 816f011b0c01ffff or 0x816f011b0c01ffff

Severity: Info

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0267

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only.

816f0125-0c01ffff [ManagedElementName] detected as present. (Front Panel)

Explanation: This message is for the use case when an implementation has detected a Managed Element is now Present.

May also be shown as 816f01250c01ffff or 0x816f01250c01ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0390

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f0125-1001ffff [ManagedElementName] detected as present. (PCI Riser 1)

Explanation: This message is for the use case when an implementation has detected a Managed Element is now Present.

May also be shown as 816f01251001ffff or 0x816f01251001ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0390

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f0125-1002ffff [ManagedElementName] detected as present. (PCI Riser 2)

Explanation: This message is for the use case when an implementation has detected a Managed Element is now Present.

May also be shown as 816f01251002ffff or 0x816f01251002ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0390

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f0125-2c01ffff [ManagedElementName] detected as present. (ML2 Card)

Explanation: This message is for the use case when an implementation has detected a Managed Element is now Present.

May also be shown as 816f01252c01ffff or 0x816f01252c01ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0390

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f0207-0301ffff [ProcessorElementName] has Recovered from FRB1/BIST condition. (CPU 1)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0045

SNMP Trap ID: 40

Automatically notify Support: No

User response: No action; information only.

816f0207-0302ffff [ProcessorElementName] has Recovered from FRB1/BIST condition. (CPU 2)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0045

SNMP Trap ID: 40

Automatically notify Support: No

User response: No action; information only.

816f0207-2584ffff [ProcessorElementName] has Recovered from FRB1/BIST condition. (All CPUs)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0045

SNMP Trap ID: 40

Automatically notify Support: No

User response: No action; information only. One of the CPUs :

816f020d-0400ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 0)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0169

SNMP Trap ID: 27

Automatically notify Support: No

User response: No action; information only.

816f020d-0401ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 1)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0169

SNMP Trap ID: 27

Automatically notify Support: No

User response: No action; information only.

816f020d-0402ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 2)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0169

SNMP Trap ID: 27

Automatically notify Support: No

User response: No action; information only.

816f020d-0403ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 3)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0169

SNMP Trap ID: 27

Automatically notify Support: No

User response: No action; information only.

816f020d-0404ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 4)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0169

SNMP Trap ID: 27

Automatically notify Support: No

User response: No action; information only.

816f020d-0405ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 5)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0169

SNMP Trap ID: 27

Automatically notify Support: No

User response: No action; information only.

816f020d-0406ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 6)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0169

SNMP Trap ID: 27

Automatically notify Support: No

User response: No action; information only.

816f020d-0407ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 7)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0169

SNMP Trap ID: 27

Automatically notify Support: No

User response: No action; information only.

816f020d-0408ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 8)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0169

SNMP Trap ID: 27

Automatically notify Support: No

User response: No action; information only.

816f020d-0409ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 9)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0169

SNMP Trap ID: 27

Automatically notify Support: No

User response: No action; information only.

816f020d-040affff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 10)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0169

SNMP Trap ID: 27

Automatically notify Support: No

User response: No action; information only.

816f020d-040bffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 11)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0169

SNMP Trap ID: 27

Automatically notify Support: No

User response: No action; information only.

816f020d-040cffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 12)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0169

SNMP Trap ID: 27

Automatically notify Support: No

User response: No action; information only.

816f020d-040dffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Drive 13)

Explanation: 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

Alert Category: System - Predicted Failure

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0169

SNMP Trap ID: 27

Automatically notify Support: No

User response: No action; information only.

816f0308-0a01ffff [PowerSupplyElementName] has returned to a Normal Input State. (Power Supply 1)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0099

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f0308-0a02ffff [PowerSupplyElementName] has returned to a Normal Input State. (Power Supply 2)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0099

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f030c-2001ffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 1)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-2002ffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 2)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-2003ffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 3)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-2004ffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 4)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-2005ffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 5)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-2006ffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 6)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-2007ffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 7)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-2008ffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 8)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-2009ffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 9)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-200affff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 10)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-200bffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 11)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-200cffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 12)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-200dffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 13)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-200effff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 14)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-200fffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 15)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-2010ffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 16)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-2011ffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 17)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-2012ffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 18)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-2013ffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 19)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-2014ffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 20)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-2015ffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 21)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-2016ffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 22)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-2017ffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 23)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-2018ffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (DIMM 24)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f030c-2581ffff Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has recovered. (All DIMMS)

Explanation: This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

May also be shown as 816f030c2581ffff or 0x816f030c2581ffff

Severity: Info

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0137

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only. One of the DIMMs :

816f030d-0400ffff Hot spare disabled for [ComputerSystemElementName]. (Drive 0)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d0400ffff or 0x816f030d0400ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0171

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f030d-0401ffff Hot spare disabled for [ComputerSystemElementName]. (Drive 1)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d0401ffff or 0x816f030d0401ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0171

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f030d-0402ffff Hot spare disabled for [ComputerSystemElementName]. (Drive 2)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d0402ffff or 0x816f030d0402ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0171

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f030d-0403ffff Hot spare disabled for [ComputerSystemElementName]. (Drive 3)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d0403ffff or 0x816f030d0403ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0171

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f030d-0404ffff Hot spare disabled for [ComputerSystemElementName]. (Drive 4)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d0404ffff or 0x816f030d0404ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0171

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f030d-0405ffff Hot spare disabled for [ComputerSystemElementName]. (Drive 5)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d0405ffff or 0x816f030d0405ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0171

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f030d-0406ffff Hot spare disabled for [ComputerSystemElementName]. (Drive 6)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d0406ffff or 0x816f030d0406ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0171

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f030d-0407ffff Hot spare disabled for [ComputerSystemElementName]. (Drive 7)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d0407ffff or 0x816f030d0407ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0171

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f030d-0408ffff Hot spare disabled for [ComputerSystemElementName]. (Drive 8)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d0408ffff or 0x816f030d0408ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0171

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f030d-0409ffff Hot spare disabled for [ComputerSystemElementName]. (Drive 9)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d0409ffff or 0x816f030d0409ffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0171

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f030d-040affff Hot spare disabled for [ComputerSystemElementName]. (Drive 10)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d040affff or 0x816f030d040affff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0171

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f030d-040bffff Hot spare disabled for [ComputerSystemElementName]. (Drive 11)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d040bffff or 0x816f030d040bffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0171

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f030d-040cffff Hot spare disabled for [ComputerSystemElementName]. (Drive 12)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d040cffff or 0x816f030d040cffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0171

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f030d-040dffff Hot spare disabled for [ComputerSystemElementName]. (Drive 13)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d040dffff or 0x816f030d040dffff

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0171

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f0313-1701ffff System [ComputerSystemElementName] has recovered from an NMI. (NMI State)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0230

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only.

816f040c-2001ffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 1)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-2002ffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 2)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-2003ffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 3)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-2004ffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 4)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-2005ffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 5)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-2006ffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 6)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-2007ffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 7)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-2008ffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 8)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-2009ffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 9)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-200affff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 10)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-200bffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 11)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-200cffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 12)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-200dffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 13)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-200effff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 14)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-200fffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 15)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-2010ffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 16)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-2011ffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 17)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-2012ffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 18)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-2013ffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 19)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-2014ffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 20)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-2015ffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 21)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-2016ffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 22)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-2017ffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 23)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-2018ffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 24)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f040c-2581ffff [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (All DIMMS)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0130

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only. One of the DIMMs :

816f0413-2582ffff A PCI PERR recovery has occurred on system [ComputerSystemElementName]. (PCIs)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0233

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only.

816f0507-0301ffff [ProcessorElementName] has Recovered from a Configuration Mismatch. (CPU 1)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0063

SNMP Trap ID: 40

Automatically notify Support: No

User response: No action; information only.

816f0507-0302ffff [ProcessorElementName] has Recovered from a Configuration Mismatch. (CPU 2)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0063

SNMP Trap ID: 40

Automatically notify Support: No

User response: No action; information only.

816f0507-2584ffff [ProcessorElementName] has Recovered from a Configuration Mismatch. (All CPUs)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0063

SNMP Trap ID: 40

Automatically notify Support: No

User response: No action; information only. One of the CPUs :

816f050c-2001ffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-2002ffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 2)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-2003ffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 3)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-2004ffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 4)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-2005ffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-2006ffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 6)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-2007ffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 7)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-2008ffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 8)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-2009ffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 9)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-200affff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 10)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-200bffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-200cffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-200dffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 13)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-200effff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 14)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-200fffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-2010ffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 16)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-2011ffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 17)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-2012ffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 18)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-2013ffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 19)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-2014ffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 20)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-2015ffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 21)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-2016ffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 22)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-2017ffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 23)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-2018ffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 24)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only.

816f050c-2581ffff Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (All DIMMS)

Explanation: 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

Alert Category: Warning - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0145

SNMP Trap ID: 43

Automatically notify Support: No

User response: No action; information only. One of the DIMMs :

816f050d-0400ffff Critical Array [ComputerSystemElementName] has deasserted. (Drive 0)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0175

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f050d-0401ffff Critical Array [ComputerSystemElementName] has deasserted. (Drive 1)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0175

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f050d-0402ffff Critical Array [ComputerSystemElementName] has deasserted. (Drive 2)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0175

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f050d-0403ffff Critical Array [ComputerSystemElementName] has deasserted. (Drive 3)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0175

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f050d-0404ffff Critical Array [ComputerSystemElementName] has deasserted. (Drive 4)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0175

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f050d-0405ffff Critical Array [ComputerSystemElementName] has deasserted. (Drive 5)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0175

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f050d-0406ffff Critical Array [ComputerSystemElementName] has deasserted. (Drive 6)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0175

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f050d-0407ffff Critical Array [ComputerSystemElementName] has deasserted. (Drive 7)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0175

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f050d-0408ffff Critical Array [ComputerSystemElementName] has deasserted. (Drive 8)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0175

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f050d-0409ffff Critical Array [ComputerSystemElementName] has deasserted. (Drive 9)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0175

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f050d-040affff Critical Array [ComputerSystemElementName] has deasserted. (Drive 10)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0175

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f050d-040bffff Critical Array [ComputerSystemElementName] has deasserted. (Drive 11)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0175

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f050d-040cffff Critical Array [ComputerSystemElementName] has deasserted. (Drive 12)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0175

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f050d-040dffff Critical Array [ComputerSystemElementName] has deasserted. (Drive 13)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0175

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f0607-0301ffff An SM BIOS Uncorrectable CPU complex error for [ProcessorElementName] has deasserted. (CPU 1)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0817

SNMP Trap ID: 40

Automatically notify Support: No

User response: No action; information only.

816f0607-0302ffff An SM BIOS Uncorrectable CPU complex error for [ProcessorElementName] has deasserted. (CPU 2)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0817

SNMP Trap ID: 40

Automatically notify Support: No

User response: No action; information only.

816f0607-2584ffff An SM BIOS Uncorrectable CPU complex error for [ProcessorElementName] has deasserted. (All CPUs)

Explanation: 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

Alert Category: Critical - CPU

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0817

SNMP Trap ID: 40

Automatically notify Support: No

User response: No action; information only. One of the CPUs :

816f0608-1301ffff [PowerSupplyElementName] Configuration is OK. (PS Configuration)

Explanation: 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

Alert Category: Critical - Power

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0105

SNMP Trap ID: 4

Automatically notify Support: No

User response: No action; information only.

816f060d-0400ffff Array in system [ComputerSystemElementName] has been restored. (Drive 0)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0177

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f060d-0401ffff Array in system [ComputerSystemElementName] has been restored. (Drive 1)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0177

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f060d-0402ffff Array in system [ComputerSystemElementName] has been restored. (Drive 2)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0177

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f060d-0403ffff Array in system [ComputerSystemElementName] has been restored. (Drive 3)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0177

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f060d-0404ffff Array in system [ComputerSystemElementName] has been restored. (Drive 4)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0177

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f060d-0405ffff Array in system [ComputerSystemElementName] has been restored. (Drive 5)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0177

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f060d-0406ffff Array in system [ComputerSystemElementName] has been restored. (Drive 6)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0177

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f060d-0407ffff Array in system [ComputerSystemElementName] has been restored. (Drive 7)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0177

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f060d-0408ffff Array in system [ComputerSystemElementName] has been restored. (Drive 8)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0177

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f060d-0409ffff Array in system [ComputerSystemElementName] has been restored. (Drive 9)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0177

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f060d-040affff Array in system [ComputerSystemElementName] has been restored. (Drive 10)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0177

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f060d-040bffff Array in system [ComputerSystemElementName] has been restored. (Drive 11)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0177

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f060d-040cffff Array in system [ComputerSystemElementName] has been restored. (Drive 12)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0177

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f060d-040dffff Array in system [ComputerSystemElementName] has been restored. (Drive 13)

Explanation: 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

Alert Category: Critical - Hard Disk drive

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0177

SNMP Trap ID: 5

Automatically notify Support: No

User response: No action; information only.

816f070c-2001ffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 1)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-2002ffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 2)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-2003ffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 3)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-2004ffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 4)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-2005ffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 5)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-2006ffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 6)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-2007ffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 7)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-2008ffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 8)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-2009ffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 9)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-200affff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 10)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-200bffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 11)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-200cffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 12)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-200dffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 13)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-200effff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 14)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-200fffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 15)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-2010ffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 16)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-2011ffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 17)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-2012ffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 18)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-2013ffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 19)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-2014ffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 20)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-2015ffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 21)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-2016ffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 22)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-2017ffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 23)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-2018ffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 24)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only.

816f070c-2581ffff Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (All DIMMS)

Explanation: 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

Alert Category: Critical - Memory

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0127

SNMP Trap ID: 41

Automatically notify Support: No

User response: No action; information only. One of the DIMMs :

816f070d-0400ffff Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 0)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0179

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f070d-0401ffff Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 1)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0179

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f070d-0402ffff Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 2)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0179

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f070d-0403ffff Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 3)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0179

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f070d-0404ffff Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 4)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0179

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f070d-0405ffff Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 5)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0179

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f070d-0406ffff Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 6)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0179

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f070d-0407ffff Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 7)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0179

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f070d-0408ffff Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 8)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0179

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f070d-0409ffff Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 9)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0179

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f070d-040affff Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 10)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0179

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f070d-040bffff Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 11)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0179

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f070d-040cffff Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 12)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0179

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f070d-040dffff Rebuild completed for Array in system [ComputerSystemElementName]. (Drive 13)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0179

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f0807-0301ffff [ProcessorElementName] has been Enabled. (CPU 1)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0060

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f0807-0302ffff [ProcessorElementName] has been Enabled. (CPU 2)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0060

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f0807-2584ffff [ProcessorElementName] has been Enabled. (All CPUs)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0060

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only. One of the CPUs :

816f0813-2581ffff System [ComputerSystemElementName]has recovered from an Uncorrectable Bus Error. (DIMMs)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0241

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only.

816f0813-2582ffff System [ComputerSystemElementName]has recovered from an Uncorrectable Bus Error. (PCIs)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0241

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only.

816f0813-2584ffff System [ComputerSystemElementName]has recovered from an Uncorrectable Bus Error. (CPUs)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0241

SNMP Trap ID: 50

Automatically notify Support: No

User response: No action; information only.

816f090c-2001ffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 1)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-2002ffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 2)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-2003ffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 3)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-2004ffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 4)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-2005ffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 5)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-2006ffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 6)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-2007ffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 7)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-2008ffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 8)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-2009ffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 9)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-200affff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 10)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-200bffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 11)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-200cffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 12)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-200dffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 13)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-200effff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 14)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-200fffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 15)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-2010ffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 16)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-2011ffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 17)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-2012ffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 18)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-2013ffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 19)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-2014ffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 20)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-2015ffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 21)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-2016ffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 22)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-2017ffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 23)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f090c-2018ffff [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 24)

Explanation: 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

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0143

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

816f0a07-0301ffff The Processor [ProcessorElementName] is no longer operating in a Degraded State. (CPU 1)

Explanation: 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

Alert Category: Warning - CPU

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0039

SNMP Trap ID: 42

Automatically notify Support: No

User response: No action; information only.

816f0a07-0302ffff The Processor [ProcessorElementName] is no longer operating in a Degraded State. (CPU 2)

Explanation: 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

Alert Category: Warning - CPU

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0039

SNMP Trap ID: 42

Automatically notify Support: No

User response: No action; information only.

816f0a0c-2001ffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-2002ffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 2)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-2003ffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 3)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-2004ffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 4)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-2005ffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-2006ffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 6)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-2007ffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 7)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-2008ffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 8)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-2009ffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 9)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-200affff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 10)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-200bffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-200cffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-200dffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 13)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-200effff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 14)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-200fffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-2010ffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 16)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-2011ffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 17)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-2012ffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 18)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-2013ffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 19)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-2014ffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 20)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-2015ffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 21)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-2016ffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 22)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-2017ffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 23)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a0c-2018ffff An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 24)

Explanation: 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

Alert Category: Critical - Temperature

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0147

SNMP Trap ID: 0

Automatically notify Support: No

User response: No action; information only.

816f0a13-0301ffff System [ComputerSystemElementName] has recovered from a Fatal Bus Error. (CPU 1 PECI)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0245

SNMP Trap ID: 50

Automatically notify Support: No

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)

Explanation: 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

Alert Category: Critical - Other

Serviceable: No

CIM Information: Prefix: PLAT and **ID:** 0245

SNMP Trap ID: 50

Automatically notify Support: No

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)

Appendix B. UEFI/POST diagnostic codes

UEFI/POST diagnostic error codes can be generated when the server starts or while the server is running. UEFI/POST codes are logged in the IMM 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 42. 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
The actions that you should take to resolve the event.

Perform the steps 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 IBM Support.

Booting server to F1 setup menu
In additional to the normal process in booting the server to the F1 setup menu (pressing F1 when <F1 Setup> is displayed), there are two other ways for users to choose.

- Method 1
  1. Proceed to the IMM2 website.
  2. Select **Server Management** tab.
  3. Select **Server Power Action**.
  4. Select **Boot Server to F1 Setup**.
- Method 2

  Use Advanced Settings Utility (ASU) program. Command line is shown as follows: **asu.exe set IMM.ForceBootToUefi enable**

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Attention:

1. When you press `Ctrl+Alt+Delete` on F1 setup menu panel, the system will reboot automatically and ask you to enter password again.
2. Most F1 Setup settings, which can be load default, are chipset related items or less user input required items. However, when adjusting the iSCSI settings, please be aware that the iSCSI configurations cannot be restored to default. This is to avoid iSCSI items losing its configurations, which may result in the system not being able to boot to the operating system.

The following is the list of the UEFI/POST error codes and suggested actions to correct the detected problems.

I.11002 [I.11002]

Explanation: A processor mismatch has been detected between one or more processors in the system. One or More Mismatched Processors Detected

Severity: 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 UEFI 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.1800A [I.1800A]

Explanation: A mismatch has been detected between the speed at which a QPI link has trained between two or more processor packages. 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 one listed on the Server Proven website.
2. Verify that matching processors are installed in the correct processor sockets. Correct any mismatch found.
3. Check the 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.1800C [I.1800C]

Explanation: A cache type mismatch has been detected for one or more processor packages. 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. Correct any mismatch found.
2. Check the IBM support site for an applicable service bulletin or firmware update that applies to this processor error.
3. (Trained technician only)Replace the system board

I.1800D [I.1800D]

Explanation: A cache associativity mismatch has been detected for one or more processor packages. 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. Correct any mismatch found.
2. Check the IBM support site for an applicable service bulletin or firmware update that applies to this processor error.
3. (Trained technician only)Replace the system board

I.1800E [I.1800E]

Explanation: A processor model mismatch has been detected for one or more processor packages. 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. Correct any mismatch found.
2. Check the IBM support site for an applicable service bulletin or firmware update that applies to this Processor error.
3. (Trained technician only)Replace the system board

I.1800F [I.1800F]

Explanation: A processor family mismatch has been detected for one or more processor packages. Processors have mismatched Family

Severity: Error

User response: Complete the following steps:

1. Verify that matching processors are installed in the correct processor sockets. Correct any mismatch found.
2. Check the IBM support site for an applicable service bulletin or firmware update that applies to this processor error.
3. (Trained technician only)Replace the system board

I.18010 [I.18010]

Explanation: A processor stepping mismatch has been detected for one or more processor packages. 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. Correct any mismatch found.
2. Check the IBM support site for an applicable service bulletin or firmware update that applies to this processor error.
3. (Trained technician only)Replace the system board

I.2018002 [I.2018002]

Explanation: 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 %. 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 the 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 the adapter to a different slot. If a slot is not available or error recurs, replace the adapter.
4. If the adapter was moved to a different slot and the error did not recur, verify that this is not a system limitation. Then replace the system board. Also, if this is not the initial installation and the error persists after adapter replacement, replace the system board.

I.2018003 [I.2018003]

Explanation: 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 %. 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 the adapter and any attached cables.
2. Move the 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 the adapter.

I.3808004 [I.3808004]

Explanation: The IMM System Event log (SEL) is full. IPMI System Event Log is Full

Severity: Info

User response: Complete the following steps:

1. Use the IMM Web Interface to clear the 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]

Explanation: The firmware image capsule signature for the currently booted flash bank is invalid. Current Bank CRTM Capsule Update Signature Invalid

Severity: Info

User response: Complete the following steps:

1. Reboot the system. Will come up on backup UEFI image. Update 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]

Explanation: The firmware image capsule signature for the non-booted flash bank is invalid. Opposite Bank CRTM Capsule Update Signature Invalid

Severity: Info

User response: Complete the following steps:

1. Update the 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]

Explanation: The CRTM flash driver could not lock the secure flash region. CRTM Could not lock secure flash region

Severity: Info

User response: Complete the following steps:

1. If system failed to boot successfully, DC cycle the system.
2. If system boots to F1 setup, update the UEFI image and reset bank to primary (if required). If the system boots without error, recovery is complete and no additional action is required.
3. If system fails to boot, or if the firmware update attempt fails, (trained service technician only) replace the system board.

I.3818009 [I.3818009]

Explanation: The TPM could not be properly initialized. TPMINIT: Fail to initialize TPM chip.

Severity: Info

User response: Complete the following steps:

1. Check the IBM support site for an applicable service bulletin or firmware update that applies to this error.
2. Reboot the system.
3. If the error continues, replace the system-board assembly (see Removing the system-board assembly and Installing the system-board assembly).

I.3868000 [I.3868000]

Explanation: IFM: System reset performed to reset adapters. IFM: System reset performed to reset adapters

Severity: Info

User response: Complete the following steps:

1. Information only; no action is required.

I.3868003 [I.3868003]

Explanation: IFM: Configuration to large for compatibility mode. IFM: Configuration too large for compatibility mode

Severity: Info

User response: Complete the following steps:

1. Information only; no action is required.

I.5100B [I.5100B]

Explanation: An unqualified DIMM serial number has been detected: serial number % found in slot % of memory card %. Unqualified DIMM Serial Number Detected

Severity: Info

User response: Complete the following steps:

1. If this information event is logged in the IMM event log, the server does not have qualified memory installed.
2. The memory installed may not be covered under warranty.
3. Without qualified memory, speeds supported above industry standards will not be enabled.
4. Please contact your Local Sales Representative or Authorized Business Partner to order qualified memory to replace the unqualified DIMM(s).
5. After you intall qualified memory and power up the server, check to make sure this informational event is not logged again.

I.58015 [I.58015]

Explanation: Memory spare copy initiated. Spare Copy Started

Severity: Info

User response: Complete the following steps:

1. Information only; no action is required.

I.580A4 [I.580A4]

Explanation: Memory population change detected. DIMM Population Change Detected

Severity: Info

User response: Complete the following steps:

1. If you have added or removed DIMMs to the system, and no additional errors were detected, then please ignore this message.
2. Check system event log for uncorrected DIMM failures and replace those DIMMs.

I.580A5 [I.580A5]

Explanation: Mirror Fail-over complete. DIMM number % has failed over to to the mirrored copy. 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]

Explanation: Memory spare copy has completed successfully. Spare Copy Complete

Severity: Info

User response: Complete the following steps:

1. If you have added or removed DIMMs to the system, and no additional errors were detected, then please ignore this message.
2. Check system event log for uncorrected DIMM failures and replace those DIMMs.

S.1100C [S.1100C]

Explanation: An uncorrectable error has been detected on processor %. Uncorrectable processor error detected

Severity: Error

User response: Complete the following steps:

1. Check the IBM support site for an applicable service bulletin or firmware update that applies to this 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.
3. (Trained Service technician only) Inspect Processor socket on each Processor removal and replace system board first if damaged or mis-aligned pins are found. Replace the system board.

S.2011001 [S.2011001]

Explanation: An Uncorrected PCIe Error has Occurred at Bus % Device % Function %. The Vendor ID for the device is % and the Device ID is %. PCI SERR Detected

Severity: Error

User response: Complete the following steps:

1. 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.
2. 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.
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 system board.
5. (Trained Service technician only) Replace the processor.

S.2018001 [S.2018001]

Explanation: An Uncorrected PCIe Error has Occurred at Bus % Device % Function %. The Vendor ID for the device is % and the Device ID is %. PCIe Uncorrected Error Detected

Severity: Error

User response: Complete the following steps:

1. 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.
2. 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.
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 system board.
5. (Trained Service technician only) Replace the processor.

S.3020007 [S.3020007]

Explanation: A firmware fault has been detected in the UEFI image. Internal UEFI Firmware Fault Detected, System halted

Severity: Error

User response: Complete the following steps:

1. Check the IBM support site for an applicable service bulletin or firmware update that applies to this error.
2. Update the UEFI image.
3. (Trained service technician only) Replace the system board.

S.3028002 [S.3028002]

Explanation: Boot permission timeout detected. Boot Permission Negotiation Timeout

Severity: Error

User response: Complete the following steps:

1. Check CMM/IMM logs for communication errors and resolve.
2. Reseat the system
3. If problem persists contact support

S.3030007 [S.3030007]

Explanation: A firmware fault has been detected in the UEFI image. 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. Update the UEFI image.
3. Replace the system board.

S.3040007 [S.3040007]

Explanation: A firmware fault has been detected in the UEFI image. 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. Update the UEFI image.
3. Replace the system board.

S.3050007 [S.3050007]

Explanation: A firmware fault has been detected in the UEFI image. 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. Update the UEFI image.
3. Replace the system board.

S.3058004 [S.3058004]

Explanation: A Three Strike boot failure has occurred. The system has booted with default UEFI settings. 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, the Setup Utility is displayed. The original UEFI settings are still present.
2. If you did not intentionally trigger the reboots, check logs for probable cause.
3. Undo recent system changes (settings or devices added). If there were no recent system changes, remove all options, and then remove the CMOS battery for 30 seconds to clear CMOS contents. Verify that the system boots. Then, re-install the options one at a time to locate the problem.
4. Check the IBM support site for an applicable service bulletin or firmware update that applies to this error.
5. Update the 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]

Explanation: A firmware fault has been detected in the UEFI image. 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. Update the UEFI image.
3. Replace the system board.

S.3070007 [S.3070007]

Explanation: A firmware fault has been detected in the UEFI image. 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. Update the UEFI image.
3. Replace the system board.

S.3108007 [S.3108007]

Explanation:] The default system settings have been restored. 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]

Explanation: The CRTM flash driver could not successfully flash the staging area. A failure occurred. CRTM Update Failed

Severity: Error

User response: Complete the following steps:

1. Continue booting the sytem. If the 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 update the UEFI image.
4. (Trained service technician only) Replace the system board.

S.3818007 [S.3818007]

Explanation: The firmware image capsules for both flash banks could not be verified. 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 setup, update the UEFI image and reset bank to primary (if required). If the system boots without error, recovery is complete and no additional action is required.
3. If system fails to boot, or if the firmware update attempt fails, (trained service technician only) replace the system board.

S.51003 [S.51003]

Explanation: An uncorrectable memory error was detected in DIMM slot % on rank %. [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. Fatal Memory Error Occurred

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 memory error.
2. 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 580A4 event denoting detected change in DIMM population that could be related to this problem.)
3. If no problem is observed on the DIMM connectors and the 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. (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 the 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.

6. (Trained 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

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S.51006 [S.51006]

Explanation: A memory mismatch has been detected. Please verify that the memory configuration is valid. 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 the 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.
3. Disable memory mirroring and sparing. If this action eliminates the mismatch, check the IBM Support site for information related to this problem.
4. Update UEFI firmware.
5. Replace the DIMM.
6. Replace the processor.

S.51009 [S.51009]

Explanation: No system memory has been detected. No Memory Detected

Severity: Error

User response: Complete the following steps:

1. If any memory errors are logged other than this one, take actions indicated for those codes first.
2. If no other memory diagnostic codes appear in the logs, verify that all DIMM connectors are enabled using the Setup utility or the Advanced Settings Utility (ASU).
3. If the problem remains, shut down and remove node from chassis and physically verify that one or more DIMMs are installed and that all DIMMs are installed in the correct population sequence.
4. If DIMMs are present and properly installed, check for any lit DIMM-connector LEDs, and if found, reseat those DIMMs.
5. Reinstall node in chassis, power on node, then check logs for memory diagnostic codes.
6. (Trained technician only) If the problem remains, replace the processor.
7. (Trained technician only) If the problem remains, replace the system board.

S.58008 [S.58008]

Explanation: A DIMM has failed the POST memory test. DIMM Failed Memory Test

Severity: Error

User response: Complete the following steps:

1. You must AC-cycle the system to re-enable the affected DIMM connector or re-enable manually using the Setup utility.
2. If the compute 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: The event Log might 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 recurs 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. If problem follows a moved DIMM to a different memory channel, replace that DIMM.
5. Check the IBM support site for an applicable service bulletin or firmware update that applies to this memory error.

6. (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 the 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.
7. 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

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S.68005 [S.68005]

Explanation: 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. Critical IOH-PCI Error

Severity: Error

User response: Complete the following steps:

1. Check the log for a separate error related to an associated PCIe device and resolve that error.
2. Check the IBM support site for an applicable service bulletin or firmware update for the system or adapter that applies to this error.
3. Replace the I/O device or PCIe adapter
4. (Trained technician only)Replace the system board reported in the error.

S.680B8 [S.680B8]

Explanation: Internal QPI Link Failure Detected. Internal QPI Link Failure Detected

Severity: Error

User response: Complete the following steps:

1. Check the IBM support site for an applicable service bulletin or firmware update that applies to this error.
2. Inspect the processor socket for foreign debris or damage. If debris is found, remove the debris.
3. (Trained technician only)If error recurs, or socket damage is found, replace the system board
4. (Trained Service Technician Only) Replace the processor.

S.680B9 [S.680B9]

Explanation: External QPI Link Failure Detected. External QPI Link Failure Detected

Severity: Error

User response: Complete the following steps:

1. Check the IBM support site for an applicable service bulletin or firmware update that applies to this error.
2. Inspect the processor socket for foreign debris or damage. If debris is found, remove the debris.
3. (Trained technician only)If error recurs, or socket damage is found, replace the system board

W.11004 [W.11004]

Explanation: A processor within the system has failed the BIST. Processor Self Test Failure Detected

Severity: Error

User response: Complete the following steps:

1. If the processor or firmware was just updated, check the 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 processor. Inspect the processor socket on each processor removal and replace system board first if the processor socket is damaged or mis-aligned pins are found.
3. (Trained Service technician only) Inspect Processor socket on each Processor removal and replace system board first if damaged or mis-aligned pins are found. Replace the system board.

W.3048006 [W.3048006]

Explanation: UEFI has booted from the backup flash bank due to an Automatic Boot Recovery (ABR) event. Automated Boot Recovery, Booting Backup UEFI Image

Severity: Warning

User response: Complete the following steps:

1. Check the IBM support site for an applicable service bulletin or firmware update that applies to this error.
2. Update the primary UEFI image.
3. Replace the system board.

W.305000A [W.305000A]

Explanation: An invalid date and time have been detected. 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. Resolve 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]

Explanation: DRIVER HEALTH PROTOCOL: Missing Configuration. Requires Change Settings From F1. DRIVER HEALTH PROTOCOL: Missing Configuration. Requires Change Settings From F1

Severity: Warning

User response: Complete the following steps:

1. Go to F1 Setup > 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]

Explanation: DRIVER HEALTH PROTOCOL: Reports 'Failed' Status Controller. 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 update the current UEFI image.
3. Replace the system board.

W.305800B [W.305800B]

Explanation: DRIVER HEALTH PROTOCOL: Reports 'Reboot' Required Controller. DRIVER HEALTH PROTOCOL: Reports 'Reboot' Required Controller

Severity: Warning

User response: Complete the following steps:

1. No action required. The system will reboot at the end of POST.
2. If the problem persists, switch to the backup UEFI image or update the current UEFI image.
3. Replace the system board.

W.305800C [W.305800C]

Explanation: DRIVER HEALTH PROTOCOL: Reports 'System Shutdown' Required Controller. DRIVER HEALTH PROTOCOL: Reports 'System Shutdown' Required Controller

Severity: Warning

User response: Complete the following steps:

1. No action required. The system will reboot at the end of POST.
2. If the problem persists, switch to the backup UEFI image or update the current UEFI image.
3. Replace the system board.

W.305800D [W.305800D]

Explanation: DRIVER HEALTH PROTOCOL: Disconnect Controller Failed. Requires 'Reboot'. DRIVER HEALTH PROTOCOL: Disconnect Controller Failed. Requires 'Reboot'

Severity: Warning

User response: Complete the following steps:

1. No action required. The system will reboot at the end of POST.
2. If the problem persists, switch to the backup UEFI image or update the current UEFI image.
3. Replace the system board.

W.305800E [W.305800E]

Explanation: DRIVER HEALTH PROTOCOL: Reports Invalid Health Status Driver. DRIVER HEALTH PROTOCOL: Reports Invalid Health Status Driver

Severity: Warning

User response: Complete the following steps:

1. No action required. The system will reboot at the end of POST.
2. If the problem persists, switch to the backup UEFI image or update the current UEFI image.
3. Replace the system board.

W.3808000 [W.3808000]

Explanation: An IMM communication failure has occurred. IMM Communication Failure

Severity: Warning

User response: Complete the following steps:

1. Reset the IMM from the CMM.
2. Use the CMM to remove auxilliary power from the compute node. This will reboot the compute node.
3. Check the IBM support site for an applicable service bulletin or firmware update that applies to this error.
4. Update the UEFI Firmware.
5. (Trained service technician only) Replace the system board.

W.3808002 [W.3808002]

Explanation: An error occurred while saving UEFI settings to the IMM. Error Updating System Configuration to IMM

Severity: Warning

User response: Complete the following steps:

1. Use the Setup Utility to verify and save the settings (which will recover the settings).
2. Reset the IMM from the CMM.
3. Use CMM to remove auxilliary power from the compute node. This will reboot the compute node.
4. Check the IBM support site for an applicable service bulletin or firmware update that applies to this error.
5. Update the IMM Firmware.
6. Use CMOS clear jumper to clear CMOS
7. (Trained service technician only) Replace the system board.

W.3808003 [W.3808003]

Explanation: Unable to retrieve the system configuration from the IMM. Error Retrieving System Configuration from IMM

Severity: Warning

User response: Complete the following steps:

1. Use the Setup Utility to verify and save the settings (which will recover the settings).
2. Reset the IMM from the CMM.
3. Use CMM to remove auxilliary power from the compute node. This will reboot the compute node.
4. Check the IBM support site for an applicable service bulletin or firmware update that applies to this error.
5. Update the IMM Firmware.
6. Use CMOS clear jumper to clear CMOS
7. (Trained service technician only) Replace the system board.

W.3818005 [W.3818005]

Explanation: The CRTM flash driver could not successfully flash the staging area. The update was aborted CRTM Update Aborted

Severity: Warning

User response: Complete the following steps:

1. Continue booting the 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 update the UEFI image.
4. (Trained service technician only) Replace the system board.

W.3868001 [W.3868001]

Explanation: IFM: Reset loop avoided - Multiple resets not allowed. IFM: Reset loop avoided - Multiple resets not allowed

Severity: Warning

User response: Complete the following steps:

1. Update all firmware (including adapter firmware) to the latest levels.
2. If problem persists escalate to the next level of support.

W.3868002 [W.3868002]

Explanation: IFM: Error communicating with the IMM - IFM may not be deployed correctly. IFM: Error communicating with the IMM - IFM may not be deployed correctly

Severity: Error

User response: Complete the following steps:

1. Update all firmware (including adapter firmware) to the latest levels.
2. If problem persists escalate to the next level of support.

W.3938002 [W.3938002]

Explanation: A boot configuration error has been detected. Boot Configuration Error

Severity: Warning

User response: Complete the following steps:

1. F1 Setup -> Save Settings.
2. Retry OOB configuration update.

W.50001 [W.50001]

Explanation: A DIMM has been disabled due to an error detected during POST. 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 the problem persists, Power cycle the compute node from the management console.
4. Reset the IMM to default settings.
5. Reset UEFI to default settings.
6. Update IMM and UEFI firmware.
7. Swap/reseat the DIMM from the disabled slot with a matching DIMM. If the slot remains disabled, (trained technician only) replace system board

W.58001 [W.58001]

Explanation: The PFA Threshold limit (correctable error logging limit) has been exceeded on DIMM number % at address %. MC5 Status contains % and MC5 Misc contains %. DIMM PFA Threshold Exceeded

Severity: Error

User response: Complete the following steps:

1. If the compute 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: The event Log might contain a recent 580A4 event denoting detected change in DIMM population that could be related to this problem.)
2. Check the 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, swap the 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.
4. If no problem is observed on the DIMM connectors and the problem persists, replace the DIMM identified by LightPath and/or event log entry.
5. 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.
6. (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 the 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.
7. (Trained 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

W.58007 [W.58007]

Explanation: Invalid memory configuration (Unsupported DIMM Population) detected. Please verify memory configuration is valid. Unsupported DIMM Population

Severity: Error

User response: Complete the following steps:

1. Ensure that the DIMM connectors are populated according to the guidelines in the service information for this product.
2. Ensure all DIMM are enabled in the uEFI setup menu.
3. If a DIMM connector error LED is lit, resolve the failure.

W.580A1 [W.580A1]

Explanation: Invalid memory configuration for Mirror Mode. Please correct memory configuration. 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.

W.580A2 [W.580A2]

Explanation: Invalid memory configuration for Sparing Mode. Please correct memory configuration. Unsupported DIMM Population for Spare 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 sparing mode, according to the service information for this product.

W.68002 [W.68002]

Explanation: A CMOS battery error has been detected CMOS Battery Fault

Severity: Error

User response: Complete the following steps:

1. If the system was recently installed, moved, or serviced, make sure the battery is properly seated.
2. Check the IBM support site for an applicable service bulletin or firmware update that applies to this error.
3. Replace the CMOS battery.
4. (Trained 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.

405-000-000 BRCM:TestControlRegisters Test Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The control registers test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: The MII register test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: The EEPROM test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: The internal memory test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: The interrupt test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Loopback testing at the MAC layer was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Loopback testing at the physical layer was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Verification of status LEDs was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: A failure was detected while testing internal MAC registers

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: A failure was detected while testing internal PHY registers.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: A failure was detected while testing non-volatile RAM.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: A failure was detected while testing internal memory.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: A failure was detected while testing interrupts.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: BRCM:TestLoopbackMAC Test Failed.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: A failure was detected during the loopback test at the physical layer.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: A failure was detected while verifying operation of the status LEDs.

Severity: Error

Serviceable: Yes

Recoverable: No

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.

218-000-000 Brocade:MemoryTest Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: The test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: The test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: The test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: The test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: The test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: The test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: A failure was detected while testing the adapter memory.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: A failure was detected during the Loopback test.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: A failure was detected during the Loopback test.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: A failure was detected during the Loopback test.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: A failure was detected during the Loopback test.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: A failure was detected during the Loopback test.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: A failure was detected during the Loopback test.

Severity: Error

Serviceable: Yes

Recoverable: No

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.

180-000-000 Check-point Panel Test Passed

Explanation: Check-point Panel Test Passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: Check-point Panel Test Aborted. BMC is unable to verify that the operator information panel cable is connected.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Check-point Panel Test Failed. Operator reported incorrect display.

Severity: Error

Serviceable: Yes

Recoverable: No

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.

089-000-000 CPU Stress Test Passed

Explanation: CPU Stress Test Passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: CPU Stress Test Aborted. Internal Program Error.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: CPU Stress Test Aborted. System resource unavailability error.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: CPU Stress Test Aborted. Memory size is insufficient to run the test. At least 1GB is required.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: CPU Stress Test Aborted. User pressed Ctrl-C.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: CPU Stress Test Failed.

Severity: Error

Serviceable: Yes

Recoverable: No

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.

516-000-000 ELXUCNA: NIC MAC LoopBackTest Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: Loopback testing at the MAC layer was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Loopback testing at the physical layer was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Verification of status LEDs was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: A failure was detected during the loopback test at the MAC layer.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: A failure was detected during the loopback test at the physical layer.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: A failure was detected while verifying operation of the status LEDs.

Severity: Error

Serviceable: Yes

Recoverable: No

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.

401-000-000 EXA Port Ping Test Passed

Explanation: EXA Port Ping Test Passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: EXA Port Ping Test Aborted. Unable to get device base address.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: EXA Port Ping Test Aborted. Port connections may not be correct.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: EXA Port Ping Test Failed.

Severity: Error

Serviceable: Yes

Recoverable: No

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.

217-000-000 HDD Test Passed

Explanation: HDD Stress Test Passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: HDD Test Aborted. The test was canceled.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: HDD Test Failed. The hard drive self-test detected a failure.

Severity: Error

Serviceable: Yes

Recoverable: No

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.

406-000-000 IANet:Registers Test Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: Registers test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: EEPROM test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: FIFO test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Interrupt test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Loopback test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: A failure was detected during the Registers test.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: A failure was detected during the EEPROM test.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: A failure was detected during the FIFO test.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: A failure was detected during the Interrupt test.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: A failure was detected during the Loopback test.

Severity: Error

Serviceable: Yes

Recoverable: No

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.

407-000-000 LSIESG:DiskDefaultDiagnostic Test Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: The test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: The hard drive self-test detected a failure.

Severity: Error

Serviceable: Yes

Recoverable: No

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.

408-000-000 MLNX:MLNX_DiagnosticTestEthernetPort Test Passed

Explanation: Port Test Passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: Port Test Passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: Port Test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Port Test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Port Test Failed.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: Port Test Failed.

Severity: Error

Serviceable: Yes

Recoverable: No

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.

201-000-000 Standalone Memory Test Passed

Explanation: Quick/Full Memory Test All CPUs Passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: Quick/Full Memory Test CPU 1 Passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: Quick/Full Memory Test CPU 2 Passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: Quick/Full Memory Test CPU 3 Passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: Quick/Full Memory Test CPU 4 Passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: Unable to Locate SMBIOS key "_SM_".

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Unable to Locate SMBIOS key "_SM_".

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Unable to Locate SMBIOS key "_SM_".

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Unable to Locate SMBIOS key "_SM_".

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Memory test is not supported for this system.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Memory test is not supported for this system.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Memory test is not supported for this system.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Memory test is not supported for this system.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Chipset Error: Can not turn OFF ECC error reporting in CPU.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Chipset Error: Can not turn OFF ECC error reporting in CPU.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Chipset Error: Can not turn OFF ECC error reporting in CPU.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Chipset Error: Can not turn OFF ECC error reporting in CPU.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Chipset Error: Can not disable Scubbing feature for CPU.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Chipset Error: Can not disable Scubbing feature for CPU.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Chipset Error: Can not disable Scubbing feature for CPU.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Chipset Error: Can not disable Scubbing feature for CPU.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Program Error with Quick Memory Menu Option Selection.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Program Error with Quick Memory Menu Option Selection.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Program Error with Quick Memory Menu Option Selection.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Program Error with Quick Memory Menu Option Selection.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Program Error with Full Memory Menu Option Selection.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Program Error with Full Memory Menu Option Selection.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Program Error with Full Memory Menu Option Selection.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Program Error with Full Memory Menu Option Selection.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Unable to Locate SMBIOS key "_SM_".

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Unable to Locate SMBIOS key "_SM_".

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Unable to Locate SMBIOS key "_SM_".

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Unable to Locate SMBIOS key "_SM_".

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: The start-end address ranges in the restricted area of the memory.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: The start-end address ranges in the restricted area of the memory.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: The start-end address ranges in the restricted area of the memory.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: The start-end address ranges in the restricted area of the memory.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Memory Upper limit is less than 16 Mbytes.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Memory Upper limit is less than 16 Mbytes.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Memory Upper limit is less than 16 Mbytes.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Memory Upper limit is less than 16 Mbytes.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Variable range MTRR registers are larger than fixed range MTRR registers.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Variable range MTRR registers are larger than fixed range MTRR registers.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Variable range MTRR registers are larger than fixed range MTRR registers.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Variable range MTRR registers are larger than fixed range MTRR registers.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Invalid MTRR service request.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Invalid MTRR service request.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Invalid MTRR service request.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Invalid MTRR service request.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Node Interleave feature must be OFF. Go to Setup and disable Node Interleave option and then re-run the test.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Node Interleave feature must be OFF. Go to Setup and disable Node Interleave option and then re-run the test.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Node Interleave feature must be OFF. Go to Setup and disable Node Interleave option and then re-run the test.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Node Interleave feature must be OFF. Go to Setup and disable Node Interleave option and then re-run the test.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: BIOS: Memory Controller has been disabled. Go to Setup and Enable Memory Controller.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: BIOS: Memory Controller has been disabled. Go to Setup and Enable Memory Controller.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: BIOS: Memory Controller has been disabled. Go to Setup and Enable Memory Controller.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: BIOS: Memory Controller has been disabled. Go to Setup and Enable Memory Controller.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: BIOS: ECC function has been disabled by BIOS. Go to Setup and enable ECC generation.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: BIOS: ECC function has been disabled by BIOS. Go to Setup and enable ECC generation.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: BIOS: ECC function has been disabled by BIOS. Go to Setup and enable ECC generation.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: BIOS: ECC function has been disabled by BIOS. Go to Setup and enable ECC generation.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Chipset Error: Problem in masking MSR machine check control MASK registers.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Chipset Error: Problem in masking MSR machine check control MASK registers.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Chipset Error: Problem in masking MSR machine check control MASK registers.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Chipset Error: Problem in masking MSR machine check control MASK registers.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Chipset Error: Problem clearing MSR machine check control registers.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Chipset Error: Problem clearing MSR machine check control registers.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Chipset Error: Problem clearing MSR machine check control registers.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Chipset Error: Problem clearing MSR machine check control registers.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: INVALID XSECSRAT type.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: INVALID XSECSRAT type.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: INVALID XSECSRAT type.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: INVALID XSECSRAT type.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No OEM0 type 1 found.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No OEM0 type 1 found.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No OEM0 type 1 found.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No OEM0 type 1 found.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No SRAT type 1 found.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No SRAT type 1 found.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No SRAT type 1 found.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No SRAT type 1 found.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No OEM1 structure found.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No OEM1 structure found.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No OEM1 structure found.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No OEM1 structure found.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No IBMERROR key in OEM1 structure.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No IBMERROR key in OEM1 structure.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No IBMERROR key in OEM1 structure.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No IBMERROR key in OEM1 structure.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No GAS located in OEM1.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No GAS located in OEM1.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No GAS located in OEM1.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No GAS located in OEM1.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No XSECSRAT key in OEM0 structure.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No XSECSRAT key in OEM0 structure.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No XSECSRAT key in OEM0 structure.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: No XSECSRAT key in OEM0 structure.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: EFI-SAL Invalid parameter from GetMemoryMap function.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: EFI-SAL Invalid parameter from GetMemoryMap function.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: EFI-SAL Invalid parameter from GetMemoryMap function.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: EFI-SAL Invalid parameter from GetMemoryMap function.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: EFI/SAL: Buffer not allocated.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: EFI/SAL: Buffer not allocated.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: EFI/SAL: Buffer not allocated.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: EFI/SAL: Buffer not allocated.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: EFI/SAL: Buffer allocated in GetMemoryMap too small.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: EFI/SAL: Buffer allocated in GetMemoryMap too small.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: EFI/SAL: Buffer allocated in GetMemoryMap too small.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: EFI/SAL: Buffer allocated in GetMemoryMap too small.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: EFI/SAL Invalid parameter from GetMemoryMap function.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: EFI/SAL Invalid parameter from GetMemoryMap function.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: EFI/SAL Invalid parameter from GetMemoryMap function.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: EFI/SAL Invalid parameter from GetMemoryMap function.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: CPU Doamin in ACPI not valid.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: CPU Doamin in ACPI not valid.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: CPU Doamin in ACPI not valid.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: CPU Doamin in ACPI not valid.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Data Mis-compare encountered.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Data Mis-compare encountered.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Data Mis-compare encountered.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Data Mis-compare encountered.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: BIOS: Sparing in Extended PCI reg. must be OFF. Go to setup and disable sparing.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: BIOS: Sparing in Extended PCI reg. must be OFF. Go to setup and disable sparing.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: BIOS: Sparing in Extended PCI reg. must be OFF. Go to setup and disable sparing.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: BIOS: Sparing in Extended PCI reg. must be OFF. Go to setup and disable sparing.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Sparing feature must be turned OFF. Go to setup and turn the sparing feature OFF.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Sparing feature must be turned OFF. Go to setup and turn the sparing feature OFF.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Sparing feature must be turned OFF. Go to setup and turn the sparing feature OFF.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Sparing feature must be turned OFF. Go to setup and turn the sparing feature OFF.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Processor does not support MTRR register manipulation. Can not write to memory without cache.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Processor does not support MTRR register manipulation. Can not write to memory without cache.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Processor does not support MTRR register manipulation. Can not write to memory without cache.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Processor does not support MTRR register manipulation. Can not write to memory without cache.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Memory Upper limit is less than 16 Mbytes.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Memory Upper limit is less than 16 Mbytes.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Memory Upper limit is less than 16 Mbytes.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Memory Upper limit is less than 16 Mbytes.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Memory Diagnostics Test Aborted by user.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Memory Diagnostics Test Aborted by user.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Memory Diagnostics Test Aborted by user.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Memory Diagnostics Test Aborted by user.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Memory Diagnostics Test Failed.

Severity: Error

Serviceable: Yes

Recoverable: 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.
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

Explanation: Memory Diagnostics Test Failed.

Severity: Error

Serviceable: Yes

Recoverable: 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.
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

Explanation: Memory Diagnostics Test Failed.

Severity: Error

Serviceable: Yes

Recoverable: 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.
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

Explanation: Memory Diagnostics Test Failed.

Severity: Error

Serviceable: Yes

Recoverable: 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.
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.

202-000-000 MemStr Test Passed

Explanation: Test Passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: Internal program error.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Memory size is insufficient to run the test. At least 1 GB is required.

Severity: Warning

Serviceable: Yes

Recoverable: No

Automatically notify Support: No

Related Links:

- IBM Support Website
- Latest level of DSA
- Latest level of BMC/IMM

202-803-000 MemStr Test Aborted

Explanation: User pressed Ctrl-C.

Severity: Warning

Serviceable: Yes

Recoverable: No

Automatically notify Support: No

Related Links:

- IBM Support Website
- Latest level of DSA
- Latest level of BMC/IMM

202-901-000 MemStr Test Failed

Explanation: Test Failed.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: Memory size is insufficient to run the test.

Severity: Error

Serviceable: Yes

Recoverable: No

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.

409-000-000 NVIDIA User Diagnostic Test Passed

Explanation: NVIDIA User Diagnostic test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: Nvidia GPU Bandwidth test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: Nvidia GPU Query test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: Nvidia GPU Matrix test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: Nvidia GPU Binomial test passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: NVIDIA User Diagnostic test was canceled.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: Nvidia GPU Bandwidth test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Nvidia GPU Query test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Nvidia GPU Matrix test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: Nvidia GPU Binomial test was canceled.

Severity: Warning

Serviceable: No

Recoverable: 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

Explanation: NVIDIA User Diagnostic Test Failed.

Severity: Event

Serviceable: Yes

Recoverable: No

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

Explanation: Nvidia GPU Bandwidth Test Failed.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: Nvidia GPU Query Test Failed.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: Nvidia GPU Matrix Test Failed.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: Nvidia GPU Binomial Test Failed.

Severity: Error

Serviceable: Yes

Recoverable: No

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.

215-000-000 Optical Drive Test Passed

Explanation: Optical Drive Test Passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: Optical Drive Test Aborted. Unable to communicate with driver.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Optical Drive Test Aborted. A read error was encountered.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Optical Drive Test Failed. Disk may be in use by the operating system.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: Optical Drive Test Aborted. The media tray is open.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Optical Drive Test Aborted. Drive media is not detected.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Optical Drive Test Failed. Read miscompare.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: Optical Drive Test Aborted. Could not access the device.

Severity: Warning

Serviceable: Yes

Recoverable: No

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.

166-000-001 IMM I2C Test Passed

Explanation: IMM I2C Test Passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: IMM returned incorrect response length.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Test cannot be completed for unknown reason.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Node Busy. Try later.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Invalid Command.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Invalid Command for given LUN.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Timeout while processing command.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Out of space.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Reservation Canceled or Invalid Reservation ID.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Request data truncated.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Request data length invalid.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Request data field length limit exceeded.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Parameter out of range.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Cannot return number of requested data bytes.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Requested Sensor, data, or record not present.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Invalid data field in Request.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Command illegal for specified sensor or record type.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Command response could not be provided.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Cannot execute duplicated request.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Command response could not be provided. SDR Repository in?update mode.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Command response could not be provided. Device in firmware update mode.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Command response could not be provided. BMC initialization in progress.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Destination unavailable.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Cannot execute command. Insufficient privilege level.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: Cannot execute command.

Severity: Warning

Serviceable: Yes

Recoverable: No

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

Explanation: IMM Indicates failure in H8S 2117 bus (BUS 0).

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: IMM Indicates failure in PCA9543--2-Channel I2C Switch bus (BUS 3).

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: IMM Indicates failure in MAX7319 --I2C Port Expander bus (BUS 4).

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: IMM Indicates failure in LM75--Thermal Sensor bus (BUS 6).

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: IMM Indicates failure in PCA9557 bus (BUS 7).

Severity: Error

Serviceable: Yes

Recoverable: No

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.

264-000-000 Tape Test Passed

Explanation: Tape Test Passed.

Severity: Event

Serviceable: No

Recoverable: 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

Explanation: An error was found in the tape alert log.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: Tape Test Failed. Media is not detected.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: Tape Test Failed. Media is not detected.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: Tape Test Failed. Drive hardware error.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: Tape Test Failed. Software error: invalid request.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: Tape Test Failed. Unrecognized error.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: An error was found in the block address somewhere.

Severity: Error

Serviceable: Yes

Recoverable: No

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

Explanation: An error was found in getting tape capacity.

Severity: Error

Serviceable: Yes

Recoverable: No

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 IBM products, you will find a wide variety of sources available from IBM to assist you.

Use this information to obtain additional information about IBM and IBM products, determine what to do if you experience a problem with your IBM system or optional device, and determine whom to call for service, if it is necessary.

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 IBM to perform warranty service on your IBM product, the IBM 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 IBM product. The IBM Warranty terms and conditions state that you, the owner of the IBM product, are responsible for maintaining and updating all software and firmware for the product (unless it is covered by an additional maintenance contract). Your IBM 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.ibm.com/systems/info/x86servers/serverproven/compat/us to make sure that the hardware and software is supported by your IBM product.
- Go to http://www.ibm.com/supportportal to check for information to help you solve the problem.
- Gather the following information to provide to IBM Support. This data will help IBM Support 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 (IBM 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 IBM Support quickly and efficiently. IBM service technicians can start working on your solution as soon as you have completed and submitted an Electronic Service Request.

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You can solve many problems without outside assistance by following the troubleshooting procedures that IBM provides in the online help or in the documentation that is provided with your IBM product. The documentation that comes with IBM systems also describes the diagnostic tests that you can perform. Most systems, operating systems, and programs come with documentation that 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.

Using the documentation

Information about your IBM system and preinstalled software, if any, or optional device is available in the documentation that comes with the product. 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. IBM 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.ibm.com/supportportal.

Getting help and information from the World Wide Web

Up-to-date information about IBM products and support is available on the World Wide Web.

On the World Wide Web, up-to-date information about IBM systems, optional devices, services, and support is available at http://www.ibm.com/supportportal. IBM System x information is at http://www.ibm.com/systems/x. IBM BladeCenter information is at http://www.ibm.com/systems/bladecenter. IBM IntelliStation information is at http://www.ibm.com/systems/intellistation.

How to send DSA data to IBM

Use the IBM 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 to IBM:

- **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 IBM 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 IBM 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

You can receive hardware service through your IBM reseller or IBM Services.

To locate a reseller authorized by IBM 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.

IBM 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

Notices

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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 1024 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 IBM.

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. IBM 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.

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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 IBM determines that the levels of particulates or gases in your environment have caused damage to the device, IBM 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 43. 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]. • 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. • The deliquescent relative humidity of the particulate contamination must be more than 60%[2]. • The room must be free of conductive contamination such as zinc whiskers.
Gaseous	• Copper: Class G1 as per ANSI/ISA 71.04-1985[3] • Silver: Corrosion rate of less than 300 Å in 30 days

Table 43. Limits for particulates and gases (continued)

Contaminant	Limits
[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.	

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The publications for this product are in Adobe Portable Document Format (PDF) and should be compliant with accessibility standards. If you experience difficulties when you use the PDF files and want to request a web-based format or accessible PDF document for a publication, direct your mail to the following address:

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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.

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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.

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914-499-1900

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Germany Class A statement

Deutschsprachiger EU Hinweis: Hinweis für Geräte der Klasse A EU-Richtlinie zur Elektromagnetischen Verträglichkeit

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Generelle Informationen:

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高調波ガイドライン準用品

Japan Electronics and Information Technology Industries Association (JEITA) Confirmed Harmonics Guidelines with Modifications (products greater than 20 A per phase)

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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

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Taiwan Class A compliance statement

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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。

Power cord safety statement

Attention: Use No. 26 AWG or larger UL-listed or CSA certified telecommunication line cord.

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