

Lenovo NeXtScale nx360 M5 water-cooled technology
tray Type 5467
Lenovo NeXtScale n1200 Enclosure Types 5468 and
5469



Installation and Service Guide

Lenovo NeXtScale nx360 M5 water-cooled technology
tray Type 5467
Lenovo NeXtScale n1200 Enclosure Types 5468 and
5469



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 463, "Notices" on page 467, the *Warranty Information* document, and the *Safety Information* and *Environmental Notices and User Guide* documents on the *Lenovo Documentation CD*.

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Safety

Before installing this product, read the Safety Information.

قبل تركيب هذا المنتج، يجب قراءة الملاحظات الأمنية

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

在安裝本产品之前，请仔细阅读 **Safety Information**
(安全信息)。

安裝本產品之前，請先閱讀「安全資訊」。

Prije instalacije ovog produkta obavezno pročitajte Sigurnosne Upute.

Před instalací tohoto produktu si přečtěte příručku bezpečnostních instrukcí.

Læs sikkerhedsforskrifterne, før du installerer dette produkt.

Lees voordat u dit product installeert eerst de veiligheidsvoorschriften.

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

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

Vor der Installation dieses Produkts die Sicherheitshinweise lesen.

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

לפני שתתקינו מוצר זה, קראו את הוראות הבטיחות.

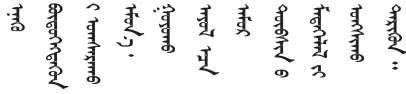
A termék telepítése előtt olvassa el a Biztonsági előírásokat!

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

製品の設置の前に、安全情報をお読みください。

본 제품을 설치하기 전에 안전 정보를 읽으십시오.

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



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

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

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

Перед установкой продукта прочтите инструкции по технике безопасности.

Pred inštaláciou tohto zariadenia si pečítajte 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་ཁུངས་འདི་བདེ་སྤྱད་མ་བྱས་གོང་། སྐྱོར་གྱི་ཡིད་གཟབ་
བྱ་འདྲ་མིན་ཡོད་པའི་འོད་སྤེར་བལྟ་དགོས།

Bu ürünü kurmadan önce güvenlik bilgilerini okuyun.

مەزكۇر مەھسۇلاتنى ئورنىتىشتىن بۇرۇن بىخەتەرلىك ئۇچۇرلىرىنى ئوقۇپ چىقىڭ.

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

Guidelines for trained service technicians

This section contains information for trained service technicians.

Inspecting for unsafe conditions

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

Each device, as it was designed and manufactured, has required safety items to protect users and service technicians from injury. The information in this section addresses only those items. Use good judgment to identify potential unsafe conditions that might be caused by unsupported alterations or attachment of unsupported features or optional devices that are not addressed in this section. If

you identify an unsafe condition, you must determine how serious the hazard is and whether you must correct the problem before you work on the product.

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

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

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

1. Make sure that the power is off and the power cords are disconnected.
2. Make sure that the exterior cover is not damaged, loose, or broken, and observe any sharp edges.
3. Check the power cords:
 - Make sure that the third-wire ground connector is in good condition. Use a meter to measure third-wire ground continuity for 0.1 ohm or less between the external ground pin and the frame ground.
 - Make sure that the power cords are the correct type.
 - Make sure that the insulation is not frayed or worn.
4. Remove the cover.
5. Check for any obvious unsupported alterations. Use good judgment as to the safety of any unsupported alterations.
6. Check inside the system for any obvious unsafe conditions, such as metal filings, contamination, water or other liquid, or signs of fire or smoke damage.
7. Check for worn, frayed, or pinched cables.
8. Make sure that the power-supply cover fasteners (screws or rivets) have not been removed or tampered with.

Guidelines for servicing electrical equipment

Observe these guidelines when you service electrical equipment.

- Check the area for electrical hazards such as moist floors, nongrounded power extension cords, and missing safety grounds.
- Use only approved tools and test equipment. Some hand tools have handles that are covered with a soft material that does not provide insulation from live electrical current.
- Regularly inspect and maintain your electrical hand tools for safe operational condition. Do not use worn or broken tools or testers.
- Do not touch the reflective surface of a dental mirror to a live electrical circuit. The surface is conductive and can cause personal injury or equipment damage if it touches a live electrical circuit.
- Some rubber floor mats contain small conductive fibers to decrease electrostatic discharge. Do not use this type of mat to protect yourself from electrical shock.
- Do not work alone under hazardous conditions or near equipment that has hazardous voltages.
- Locate the emergency power-off (EPO) switch, disconnecting switch, or electrical outlet so that you can turn off the power quickly in the event of an electrical accident.
- Disconnect all power before you perform a mechanical inspection, work near power supplies, or remove or install main units.

- Before you work on the equipment, disconnect the power cord. If you cannot disconnect the power cord, have the customer power-off the wall box that supplies power to the equipment and lock the wall box in the off position.
- Never assume that power has been disconnected from a circuit. Check it to make sure that it has been disconnected.
- If you have to work on equipment that has exposed electrical circuits, observe the following precautions:
 - Make sure that another person who is familiar with the power-off controls is near you and is available to turn off the power if necessary.
 - When you work with powered-on electrical equipment, use only one hand. Keep the other hand in your pocket or behind your back to avoid creating a complete circuit that could cause an electrical shock.
 - When you use a tester, set the controls correctly and use the approved probe leads and accessories for that tester.
 - Stand on a suitable rubber mat to insulate you from grounds such as metal floor strips and equipment frames.
- Use extreme care when you measure high voltages.
- To ensure proper grounding of components such as power supplies, pumps, blowers, fans, and motor generators, do not service these components outside of their normal operating locations.
- If an electrical accident occurs, use caution, turn off the power, and send another person to get medical aid.

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:

1. Turn everything OFF.
2. First, attach all cables to devices.
3. Attach signal cables to connectors.
4. Attach power cords to outlet.
5. Turn device ON.

To Disconnect:

1. Turn everything OFF.
2. First, remove power cords from outlet.
3. Remove signal cables from connectors.
4. Remove all cables from devices.

Statement 2



CAUTION:

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

Do not:

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

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

Statement 3



CAUTION:

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

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



DANGER

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

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

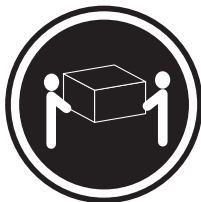
Class 1 Laser Product
Laser Klasse 1
Laser Klass 1
Luokan 1 Laserlaite
Appareil À Laser de Classe 1

Statement 4



CAUTION:

Use safe practices when lifting.



≥ 18 kg (39.7 lb)



≥ 32 kg (70.5 lb)



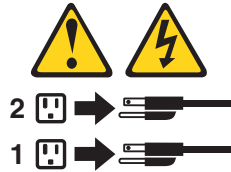
≥ 55 kg (121.2 lb)

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 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 Lenovo NeXtScale nx360 M5 water-cooled technology tray Type 5467, Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469

This *Installation and Service Guide* contains information and instructions for setting up your Lenovo NeXtScale nx360 M5 water-cooled technology tray Type 5467, Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469, instructions for installing some optional devices, cabling and configuring the water-cooled technology tray, removing and replacing devices, and diagnostics and troubleshooting information.

The Lenovo NeXtScale nx360 M5 water-cooled technology tray Type 5467 is supported in the NeXtScale nx360 Enclosure Type 5468 only.

In addition to the instructions in Chapter 2, “Components, features, and controls,” on page 21 for installing optional hardware devices, updating firmware and device drivers, and completing the installation, Lenovo Business Partners must also complete the steps in “Instructions for Lenovo Business Partners” on page 21.

The Lenovo NeXtScale nx360 M5 water-cooled technology tray Type 5467 is a 1-U¹-high rack model water-cooled technology tray for high-volume network transaction processing. There are two separate nodes in a single tray. This high-performance, multi-core water-cooled technology tray is a high-availability, scalable water-cooled technology tray that is optimized to support the next-generation microprocessor technology and is ideally suited for medium and large businesses.

Performance, ease of use, reliability, and expansion capabilities were key considerations in the design of the water-cooled technology tray. 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 water-cooled technology tray comes with a limited warranty. For information about the terms of the warranty and getting service and assistance, see the *Lenovo Warranty Information* document that comes with the water-cooled technology tray.

The water-cooled technology tray contains X-Architecture® next generation technologies, which help increase performance and reliability. For more information, see “What your server offers” on page 8 and “Reliability, availability, and serviceability” on page 10.

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

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

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

If firmware and documentation updates are available, you can download them from the Lenovo website. The water-cooled technology tray might have features that are not described in the documentation that comes with the water-cooled technology tray, 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 water-cooled technology tray documentation. To check for updates, go to <http://support.lenovo.com/>.

Record information about the water-cooled technology tray in the following table.

Table 1. Record of the system information

Product name	Machine Type (s)	Model number	Serial number
Lenovo NeXtScale nx360 M5 water-cooled technology tray Type 5467	Type 5467		

The model number and serial number are on the ID label on the front of the water-cooled technology tray, as shown in the following illustration.

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

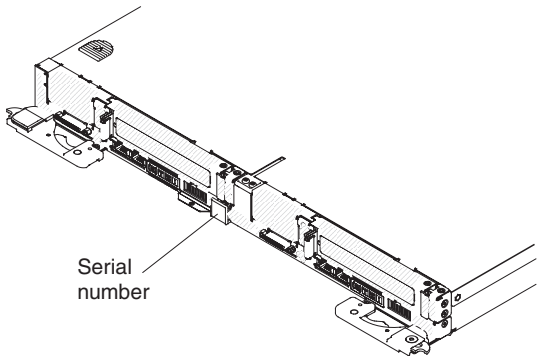


Figure 1. ID label on the front of the water-cooled technology tray

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

The following illustration shows the QR code:



Figure 2. QR code

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

For a list of supported optional devices for the water-cooled technology tray, see <http://www.ibm.com/systems/info/x86servers/serverproven/compat/us>.

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

The Lenovo Documentation CD

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

Hardware and software requirements

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

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

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

The Documentation Browser

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

The *Documentation Browser* automatically detects the regional settings in use in your server and displays the documents in the language for that region (if available). If a document is not available in the language for that region, the English-language version is displayed.

Use one of the following procedures to start the *Documentation Browser*:

- If Autostart is enabled, insert the CD into the CD or DVD drive. The *Documentation Browser* starts automatically.
- If Autostart is disabled or is not enabled for all users, use one of the following procedures:
 - If you are using a Windows operating system, insert the CD into the CD or DVD drive and click **Start > Run**. In the **Open** field, type:
`e:\win32.bat`

where *e* is the drive letter of the CD or DVD drive, and click **OK**.

- If you are using Red Hat Linux, insert the CD into the CD or DVD drive; then, run the following command from the `/mnt/cdrom` directory:

```
sh runlinux.sh
```

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

When you select a document, a description of the document is displayed under **Topic Description**. To select more than one document, press and hold the **Ctrl** key while you select the documents. Click **View** 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 **Ctrl+F** to use the Acrobat search function, or press **Alt+F** to use the xpdf search function within the document.

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

Related documentation

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

The following documentation also comes with the server:

- *Environmental Notices and User Guide*
This document is in PDF format on the *Lenovo Documentation* CD. It contains translated environmental notices.
- *Lenovo License Agreement for Machine Code*
This document is in PDF format on the *Lenovo Documentation* CD. It provides translated versions of the *Lenovo License Agreement for Machine Code* for your product.
- *Important Notices*
This document is in printed format and comes with the server. It contains information about the safety, environmental, and electronic emission notices for your Lenovo product.
- *Licenses and Attributions Documents*
This document is in PDF format on the *Lenovo Documentation* CD. It provides the open source notices.
- *Rack 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 *Lenovo Documentation* CD. It contains translated caution and danger statements. Each caution and danger statement that appears in the documentation has a number that you can use to locate the corresponding statement in your language in the *Safety Information* document.

- *Safety Information Labels*

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

- *Warranty Information*

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

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

The System x and BladeCenter Tools Center is an online information center that contains information about tools for updating, managing, and deploying firmware, device drivers, and operating systems. The System x and BladeCenter Tools Center is at <http://www.ibm.com/support/entry/portal/docdisplay?lnocid=TOOL-CENTER>.

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

Notices and statements in this document

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

The following notices and statements are used in this document:

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

Server features and specifications

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

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

Microprocessor (depending on the model):

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

Notes:

1. Use the Setup utility to determine the type and speed of the microprocessors in the server
2. For a list of supported microprocessors, see <http://www.ibm.com/systems/info/x86servers/serverproven/compat/us>.

Memory:

- 16 dual inline memory module (DIMM) connectors available per system board
- Type: Low-profile (LP) double-data rate (DDR4) DRAM
- Supports 8 GB and 16 GB RDIMMs with up to 512 GB of total memory on the system board

PCI expansion slots:

- One PCI Express x16 slots (PCIe3.0, full-height, half-length, limited to specific adapters) per system board
- One PCI Express x16 (ML2) slots (support 50 mm in height only) per system board

Power supplies:

- Supports six hot-swap ac power supplies
 - 900-watt ac
 - 1300-watt ac

Note:

- Power supplies in the chassis must be with the same power rating or wattage.

Integrated functions:

- Integrated management module 2.1 (IMM2.1), which consolidates multiple management functions in a single chip
- Concurrent COM/VGA/2x USB (KVM)
- System error LEDs
- Supports up to two optional ML2 network adapter
- Wake on LAN (WOL)

Video controller (integrated into IMM2.1):

- Matrox G200eR2
- SVGA compatible video controller
- Avocent Digital Video Compression

- Video memory is not expandable

Note: Maximum video resolution is 1600 x 1200 at 75 Hz.

Size:

- Height: 41 mm (1.6 in)
- Depth: 742 mm (29.2 in)
- Width: 438 mm (17.25 in)
- Weight estimation: 13.3 kg (29.3 lb)

Acoustical noise emissions:

Sound power: 7.0 bels

Environment:

The water-cooled technology tray complies with ASHRAE class A3 specifications.

Storage (non-operating):

- Temperature: 1°C to 60°C (33.8°F to 140.0°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 140.0°F)
- Maximum altitude: 10,700 m (35,105 ft)
- Relative humidity: 5% to 100%
- Maximum dew point: 29°C (84.2°F)

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)

Server on

- Temperature: 5°C to 40°C (41°F to 104°F) up to 950 m
- Humidity, non-condensing: -12°C dew point (10.4°F) and 8% to 85% relative humidity
- Maximum dew point: 24°C (75°F)
- Maximum altitude: 3,050 m (10,000 ft) & 5°C to 28°C (41°F to 82°F)
- Maximum rate of temperature change: 20°C/hr (68°F/hr) for hard disk drives

Water requirement:

- Minimum water flow rate: 6.0 liters per minute per chassis, assuming 1.0 lpm per compute tray with 6 trays per chassis (1 tray consists of 2 compute nodes)
- Inlet Water Temperature: 18 °C to 45 °C (64°F to 113°F) for all processors up to and including 145 W TDP
- Inlet Water Temperature: 18 °C to 35 °C (64°F to 95°F) for processors at 165 W TDP (E5-2698A v3)
- Maximum pressure: 4.4 bars

Note: The water required to initially fill the system side cooling loop must be reasonably clean, bacteria-free water (<100 CFU/ml) such as de-mineralized water, reverse osmosis water, de-ionized water, or distilled water. The water must be filtered with an in-line 50 micron filter (approximately 288 mesh). The water must be treated with anti-biological and anti-corrosion measures. Refer to Water Treatment Specification (part number 00J0351).

Particulate contamination

Attention:

- Design to ASHRAE Class A3, temperature: 36°C to 40°C (96.8°F to 104°F), with relaxed support:
 - Support cloud such as workload with no performance degradation acceptable (turbo-off)
 - Under no circumstance, can any combination of the worst case workload and configuration result in system shutdown or design exposure at 40°C
 - The worst case workload (such as linpack and turbo-on) may have performance degradation
- Airborne particulates and reactive gases acting alone or in combination with other environmental factors such as humidity or temperature might pose a risk to the water-cooled technology tray. For information about the limits for particulates and gases, see “Particulate contamination” on page 469.

Heat output:

Approximate heat output:

- Minimum configuration: 143 BTU per hour (42 watts)
- Maximum configuration: 1733 BTU per hour (508 watts)

Electrical input:

- Sine-wave input (50-60 Hz) required
- Input voltage low range:
 - Minimum: 100 V AC
 - Maximum: 127 V AC
- Input voltage high range:
 - Minimum: 200 V AC
 - Maximum: 240 V AC
- Input kilovolt-amperes (kVA), approximately:
 - Minimum: 0.042 kVA
 - Maximum: 0.508 kVA

What your server offers

Your water-cooled technology tray offers features such as the integrated management module II, hard disk drive support, systems-management support, microprocessor technology, integrated network support, I/O expansion, large system-memory capacity, light path diagnostics LEDs, PCI Express®, and power throttling.

- **Features on Demand**

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

- **Flexible network support**

The water-cooled technology tray provides flexible network capabilities:

- **Models with embedded Ethernet**

The server comes with an integrated dual-port Intel Gigabit Ethernet controller, which supports connection to a 10 Mbps, 100 Mbps, or 1000 Mbps network.

- **Lenovo ServerGuide Setup and Installation CD**

The *ServerGuide Setup and Installation* CD, which you can download from the web, provides programs to help you set up the server and install a Windows operating system. The ServerGuide program detects installed optional hardware devices and provides the correct configuration programs and device drivers. For more information about the *ServerGuide Setup and Installation* CD, see “Using the ServerGuide Setup and Installation CD” on page 33.

- **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

For additional information, see “Using the Integrated Management Module 2.1 (IMM2.1)” on page 43 and the *Integrated Management Module 2.1 User’s Guide* at the <http://support.lenovo.com/>.

- **Large system-memory capacity**

The water-cooled technology tray supports up to 512 GB of system memory. The memory controller provides support for up to 32 industry-standard registered ECC DDR4 on low-profile (LP) DIMMs on the system board. For the most current list of supported DIMMs, see <http://www.ibm.com/systems/info/x86servers/serverproven/compat/us>.

- **Light path diagnostics**

Light path diagnostics provides LEDs to help you diagnose problems. For more information about light path diagnostics and the LEDs, see “Server controls, LEDs, and power” on page 12.

- **Microprocessor technology**

The water-cooled technology tray supports up to four multi-core Intel Xeon microprocessors. For more information about supported microprocessors and their part numbers, see <http://www.ibm.com/systems/info/x86servers/serverproven/compat/us>.

Note: The optional microprocessors that Lenovo supports are limited by the capacity and capability of the water-cooled technology tray. Any microprocessor that you install must have the same specifications as the microprocessor that came with the water-cooled technology tray.

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

The server provides a QR code on the system service label, which is on the cover of the server, that you can scan using a QR code reader and scanner with a mobile device to get quick access to the Lenovo Service Information website. The Lenovo Service Information website provides additional information for parts installation and replacement videos, and error codes for server support. For the QR code, see Chapter 1, “The Lenovo NeXtScale nx360 M5 water-cooled technology tray Type 5467, Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469,” on page 1.

- **PCI Express**

PCI Express is a serial interface that is used for chip-to-chip interconnect and expansion adapter interconnect. You can add optional I/O devices.

- **Power® throttling**

By enforcing a power policy known as power-domain oversubscription, the Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469 can share the power load between six power supplies to ensure sufficient power for each device in the Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469. This policy is enforced when the initial power is applied to the Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469 or when a water-cooled technology tray is inserted into the Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469.

The following settings for this policy are available:

- Basic power management
- Power module redundancy
- Power module redundancy with water-cooled technology tray throttling allowed

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 Types 5467, 5468, and 5469)
- Backup basic input/output system switching under the control of the Integrated Management Module 2.1 (IMM2.1)
- Built-in monitoring for fan, power, temperature, voltage, and power-supply redundancy
- Chipkill memory protection
- Diagnostic support for ServeRAID and Ethernet adapters
- Error codes and messages
- Error correcting code (ECC) L3 cache and system memory
- Information and light path diagnostics LED panels
- Light path diagnostics LEDs for DIMMs, microprocessors, and power supplies
- Memory error correcting code and parity test

- Microprocessor built-in self-test (BIST), internal error signal monitoring, internal thermal trip signal monitoring, configuration checking, and microprocessor and voltage regulator module failure identification through light path diagnostics
- Nonmaskable interrupt (NMI) button
- Parity checking on the PCIe buses
- Power management: compliance with Advanced Configuration and Power Interface (ACPI)
- Power-on self-test (POST)
- Redundant hot-swap power supplies
- Serial Presence Detection (SPD) on memory, VPD on system board, power supply, and hard disk drive or solid state drive backplanes, microprocessor and memory expansion tray, and Ethernet adapters
- Single-DIMM isolation of excessive correctable error or multi-bit error by the Unified Extensible Firmware Interface (UEFI)
- Upgradeable POST, Unified Extensible Firmware Interface (UEFI), diagnostics, IMM2.1 firmware, and read-only memory (ROM) resident code, locally or over the LAN

Systems Director

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

Through a single user interface, Systems Director provides consistent views for viewing managed systems, determining how these systems relate to one other, and identifying their statuses, helping to correlate technical resources with business needs. A set of common tasks that are included with Systems Director provides many of the core capabilities that are required for basic management, which means instant out-of-the-box business value. The common tasks include:

- Discovery
- Inventory
- Configuration
- System health
- Updates
- Event notification
- Automation for managed systems

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

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

- Managing the life cycles of virtual resources

For more information about Systems Director, see the Systems Director Information Center at <http://pic.dhe.ibm.com/infocenter/director/pubs/index.jsp>, and the Systems Management website at <http://www.ibm.com/systems/management>, which presents an overview of Systems Management and Systems Director.

Server controls, LEDs, and power

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

For the locations of other LEDs on the system board, see “System-board LEDs” on page 27.

Front view

The following illustration shows the controls, LEDs, and connectors on the front of the Lenovo NeXtScale nx360 M5 water-cooled technology tray Type 5467.

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

There are two separate nodes in a single tray. The following illustration identifies the buttons, connectors, and LEDs on the control panel.

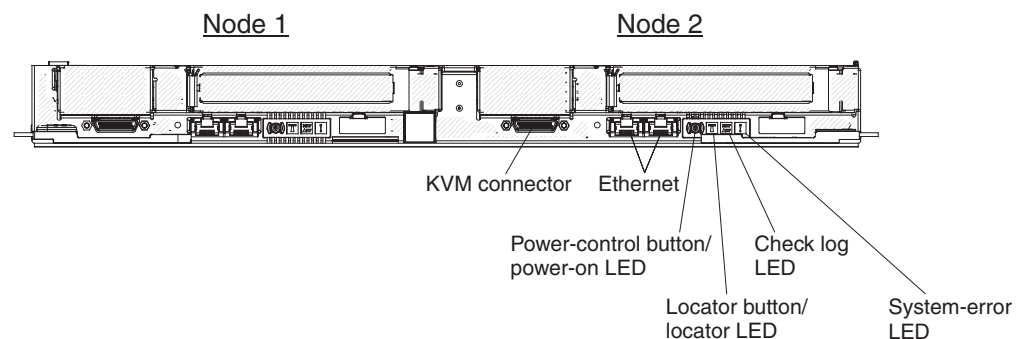


Figure 3. Water-cooled technology tray control panel buttons, connectors, and LEDs

Power button/LED

When the water-cooled technology tray is connected to power through the Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469, press this button to turn on or turn off the water-cooled technology tray.

This button is also the power LED. This green LED indicates the power status of the water-cooled technology tray:

- **Flashing rapidly:** The LED flashes rapidly for the following reasons:
 - The water-cooled technology tray has been installed in a chassis. When you install the water-cooled technology tray, the LED flashes rapidly for up to 90 seconds while the integrated management module (IMM2.1) in the water-cooled technology tray is initializing.
 - The Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469 does not have enough power to turn on the water-cooled technology tray.
 - The IMM2.1 in the water-cooled technology tray is not communicating with the Chassis Management Module.

- **Flashing slowly:** The water-cooled technology tray is connected to power through the Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469 and is ready to be turned on.
- **Lit continuously:** The water-cooled technology tray is connected to power through the Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469 and is turned on.

When the water-cooled technology tray is on, pressing this button causes an orderly shutdown of the water-cooled technology tray so that it can be removed safely from the chassis. This includes shutting down the operating system (if possible) and removing power from the water-cooled technology tray.

If an operating system is running, you might have to press the button for approximately 4 seconds to initiate the shutdown.

Attention: Pressing the button for 4 seconds forces the operating system to shut down immediately. Data loss is possible.

Locator LED

Use this blue LED to visually locate the server among other servers. This LED is used as a presence detection as well. You can use Systems Director or IMM web interface to light this LED remotely. This LED is controlled by the IMM.

Check log LED

When this yellow LED is lit, it indicates that a system error has occurred. Check the “Event logs” on page 66 for additional information.

System error LED

When this yellow LED is lit, it indicates that a system error has occurred. An LED on the system board is also lit to help isolate the error. This LED is controlled by the IMM.

KVM connector

Connect the console breakout cable to this connector.

Note: It is best practice to connect the console breakout cable to only one water-cooled technology tray at a time in each Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469.

Ethernet connectors

Use either of these connectors to connect the server to a network. When you enable shared Ethernet for IMM2.1 in the Setup utility, you can access the IMM2.1 using either the Ethernet 1 or the system-management Ethernet (default) connector. See Using the Setup utility for more information.

Ethernet link activity/status LED

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

Management 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 2.1 (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.

Rear view

The following illustration shows the connector on the rear of Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469.

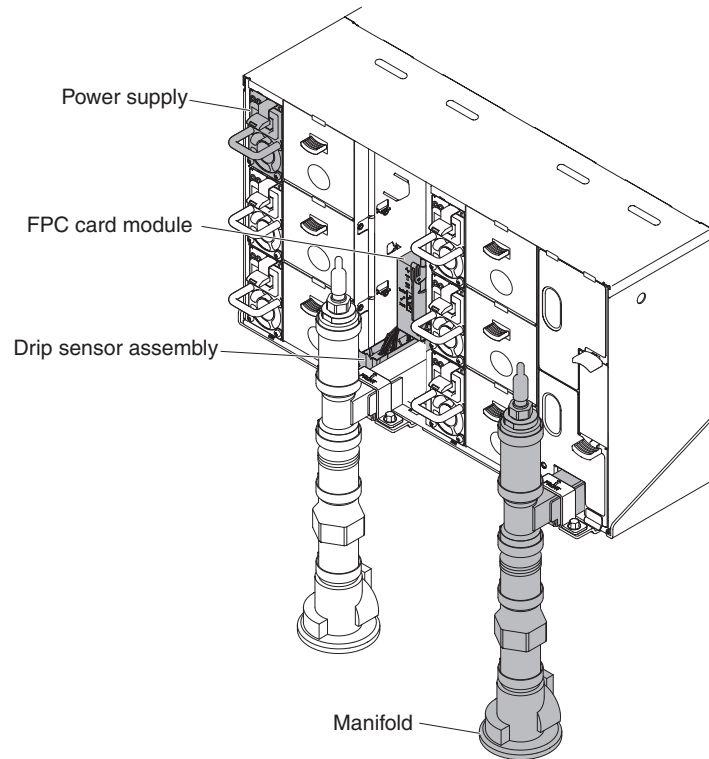


Figure 4. Connectors on the rear of the Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469

Fan and power controller

You can install the fan and power controller in the NeXtScale n1200 Enclosure Types 5468.

Note: The fan and power controller has fault and power-on LEDs similar to those found on the other chassis components. The fan and power controller also has connectors that are unique to the device.

The fan and power controller provides integrated systems-management functions, including a 10/100 Mbps remote management and console (Ethernet) connector.

Fan and power controller indicators, controls, and connectors:

The fan and power controller has LEDs, controls, and connectors that you can use to obtain status information and restart the fan and power controller.

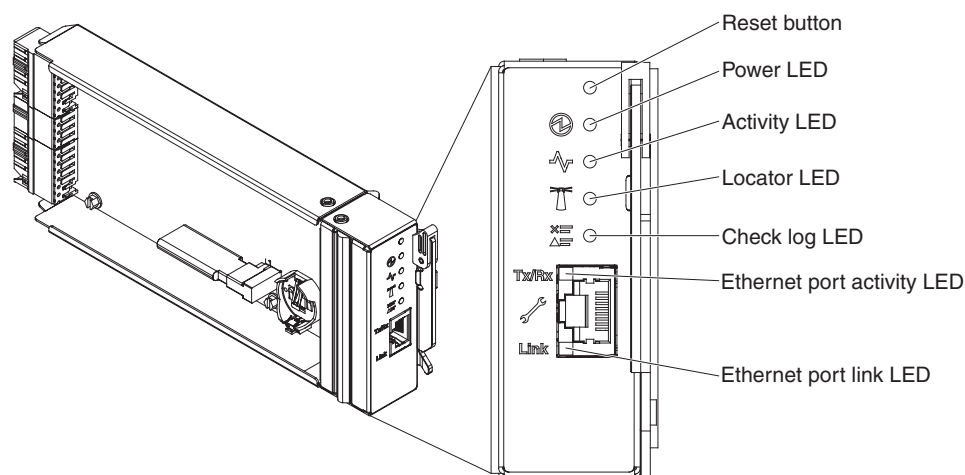


Figure 5. Fan and power controller with call outs for the LEDs, controls, and connectors

The fan and power controller has the following LEDs, controls, and connectors:

Power-on LED

When this LED is lit (green), it indicates that the fan and power controller has power.

Heartbeat LED

When this LED is lit (green), it indicates that the fan and power controller is actively controlling the chassis.

Locator LED

When this LED is lit (blue), it indicates the chassis location in a rack.

Check log LED

When this LED is lit (yellow), it indicates that a system error has occurred. Check the event log for additional information.

Ethernet port activity (RJ-45) LED

When this LED is flashing (green), it indicates that there is activity through the remote management and console (Ethernet) port over the management network.

Ethernet port link (RJ-45) LED

When this LED is lit (green), it indicates that there is an active connection through the remote management and console (Ethernet) port to the management network.

Remote management and console (Ethernet) connector

The remote management and console connector (RJ-45) is the management network connector for all chassis components. This 10/100 base T Ethernet connector is usually connected to the management network through a top-of-rack switch.

Power supplies

The NeXtScale nx360 M5 water-cooled technology tray supports six autoranging power supplies.

The following illustration shows the power supply:

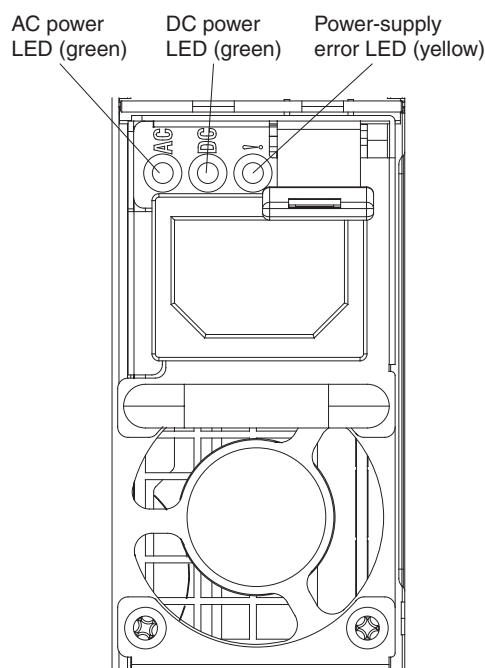


Figure 6. Power supply front view

The power supplies get electrical power from a 100 - 127 V ac or 200 - 240 V ac power source and convert the ac input into 12 V outputs. The power supplies are capable of autoranging within the input voltage range. There is one common power domain for the chassis that distributes power to each of the water-cooled technology trays and modules through the system midplane.

AC redundancy is achieved by distributing the ac power cord connections between independent ac circuits.

When applying the power supplies redundancy policy through fan and power controller after the water-cooled technology trays are powered on, it may not be sufficient to allow N+1 or N+N configuration at current power supplies redundancy state. Before you change the power supplies redundancy policy, 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>.

Each power supply has internal fans and a controller. The power supply controller can be powered by any installed power supply that is providing power through the midplane.

Attention: The power supplies contain internal cooling fans. Do not obstruct the fan exhaust vents.

You have to install all of the six power supplies regardless of the type of power supply, the chassis power load, or selected chassis power policy.

The NeXtScale nx360 M5 water-cooled technology tray does not support mixing of low input voltage power supplies with high input voltage power supplies. For example, if you install a power supply with an input voltage of 100 - 127 V ac in a chassis that is powered by 200 - 240 V ac power supplies, the 100 - 127 V power supply will not power on. The same restriction applies to a chassis that is powered

by 100 - 127 V ac power supplies. If you install a 200 - 240 V ac power supply in a chassis that is powered by 100 - 127 V ac power supplies, the 200 - 240 V ac power supply will not power on.

Power supply controls and indicators

There are three LEDs on each power supply:

AC power LED

When this LED is lit (green), it indicates that ac power is being supplied to the power supply.

DC power LED

When this LED is lit (green), it indicates that dc power is being supplied from the power supply to the chassis midplane.

Fault LED

When this LED is lit (yellow), it indicates that there is a fault with the power supply.

Note: Before unplugging the ac power cord from the power supply or removing the power supply from the chassis, verify that the capacity of the remaining power supplies are sufficient to meet the minimum power requirements for all components in the chassis.

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 2.1 (IMM2.1) is shutdown.

However, the server can respond to requests from Integrated Management Module 2.1 (IMM2.1), such as a remote request to turn on the server. The power-on LED flashes to indicate that the server is connected to ac power but is not turned on.

Turning on the server

Use this information to turn on the server.

About this task

Approximately 5 seconds after the server is connected to ac 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 1 to 3 minutes after the server is connected to ac 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.

Procedure

1. Press the power-on button to turn on the server.
2. The server can also be turned on in any of the following ways:
 - If a power failure occurs while the server is turned on, the server will restart automatically when power is restored.
 - If your operating system supports the Wake on LAN feature, the Wake on LAN feature can turn on the server.

Note: 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.

Turning off the server

Use this information to turn off the server.

About this task

When you turn off the server and leave it connected to ac power, the server can respond to requests from Integrated Management Module 2.1 (IMM2.1), such as a remote request to turn on the server. While the server remains connected to ac power, one or more fans might continue to run. To remove all power from the server, you must disconnect it from the power source.

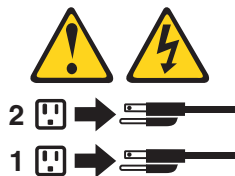
Some operating systems require an orderly shutdown before you turn off the server. See your operating-system documentation for information about shutting down the operating system.

Statement 5



CAUTION:

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



Procedure

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

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

Note: When you install any PCI adapter, the power cords must be disconnected from the power source before you remove the PCI Express assembly. Otherwise, the Wake on LAN feature might not work.

- The Integrated Management Module 2.1 (IMM2.1) can turn off the server as an automatic response to a critical system failure.

Chapter 2. Components, features, and controls

This chapter describes the server components, the server controls and light-emitting diodes (LEDs), and how to turn the system-board tray on and off.

Before you begin

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

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

Procedure

1. Make sure that the server and the installed firmware levels support the devices that you are installing. If necessary, update the UEFI and IMM2.1 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 31. 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 *Firmware Update Guides* document, go to <http://www.ibm.com/support/entry/portal/docdisplay?lnocid=MIGR-5082923>. Additional hints and tips are available from the following website:
 - Lenovo support: <http://support.lenovo.com/>
 - 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 starts, if an operating system is installed, or that a 19990305 error code is displayed, indicating that an operating system was not found but the server is otherwise working correctly. If the server is not working correctly, see “Running DSA Preboot diagnostic programs” on page 70 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.

Instructions for Lenovo Business Partners

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

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

1. After you have confirmed that the server starts correctly and recognizes the newly installed devices and that no error LEDs are lit, run the Dynamic System Analysis (DSA) stress test. For information about using DSA, see “Lenovo Dynamic System Analysis” on page 69.
2. Shut down and restart the server multiple times to ensure that the server is correctly configured and functions correctly with the newly installed devices.
3. Save the DSA log as a file and send it to Lenovo. For information about transferring data and logs, see “Sending DSA data to Lenovo.”
4. To ship the server, repackage it in the original undamaged packing material and observe Lenovo procedures for shipping.

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

Sending DSA data to Lenovo

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

Before you begin

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

Procedure

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

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

Server components

There are two separate nodes in a single tray. The following illustration shows the major components in the server.

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

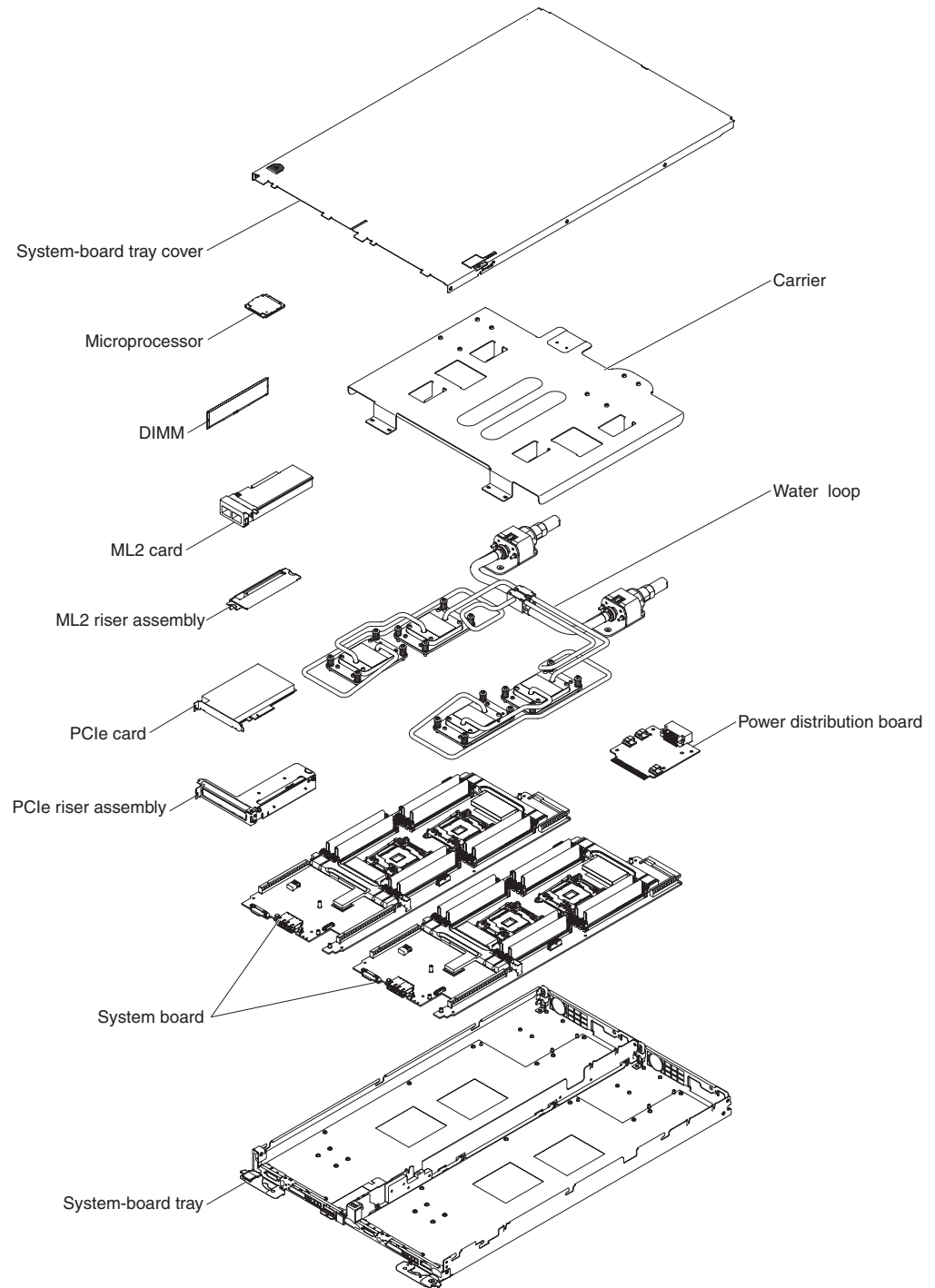


Figure 7. Server components

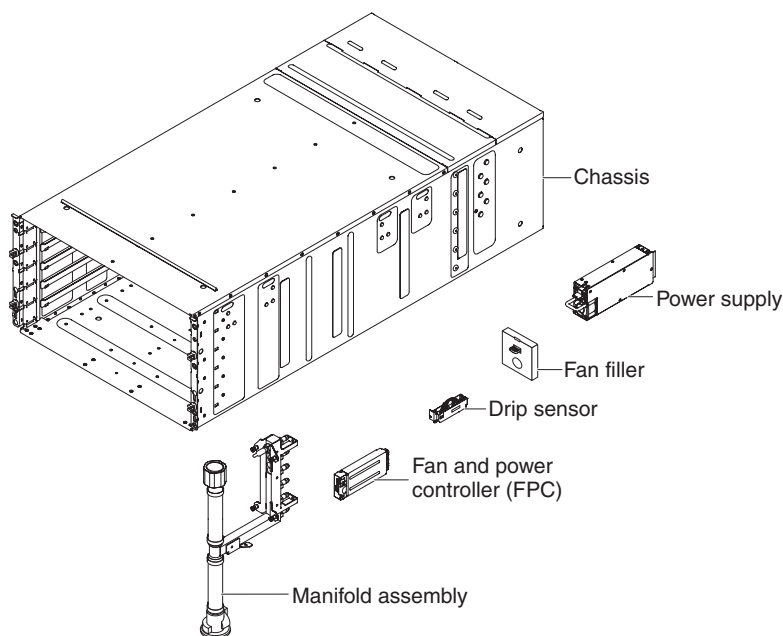


Figure 8. Chassis and manifold components

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.

Note: 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.

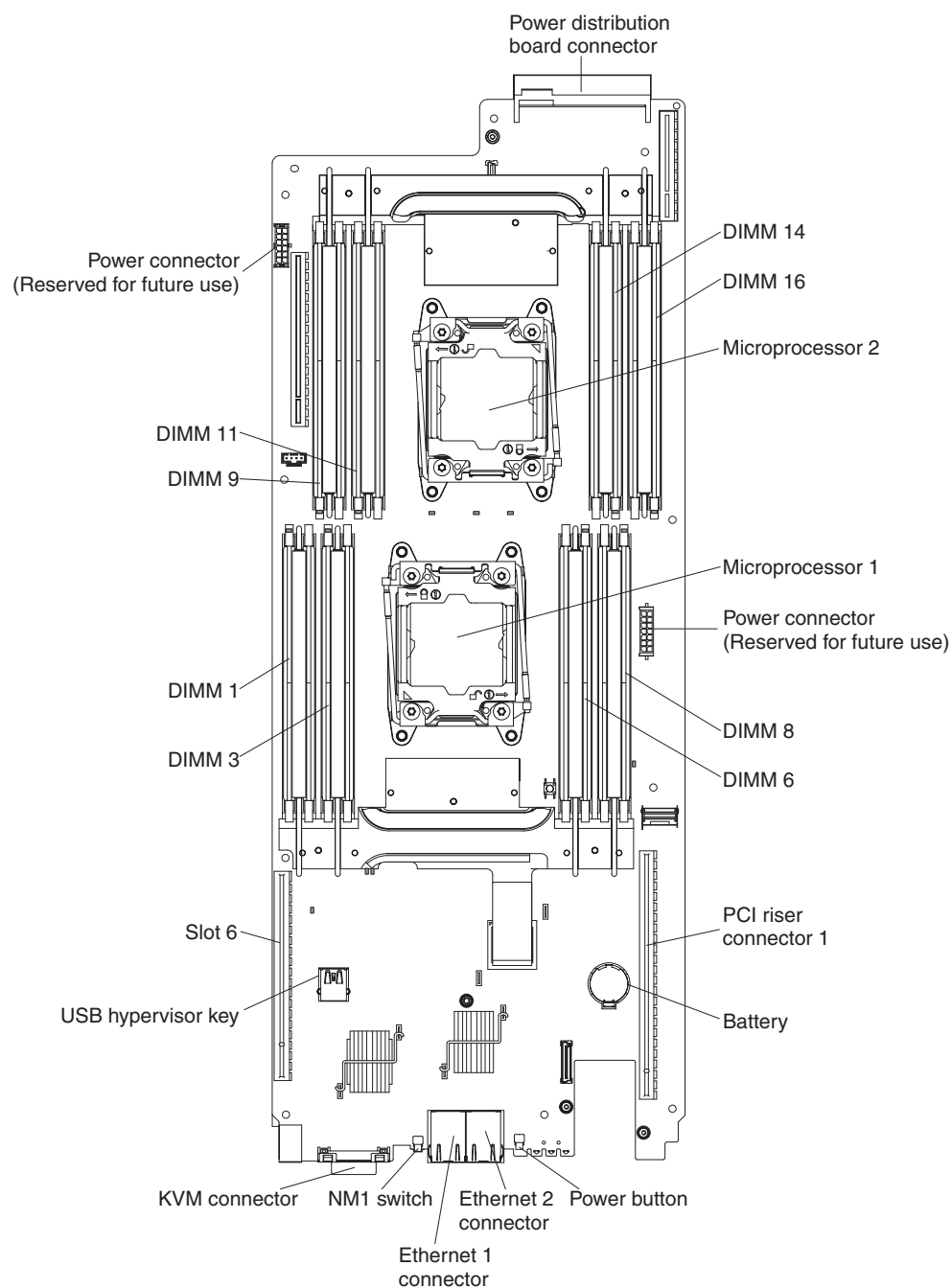


Figure 9. Internal connectors on the system board

System-board switches and jumpers

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

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 v, “Installation guidelines” on page 28, and “Turning off the server” on page 18.
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 switch blocks, you must remove and discard it to access the switches.

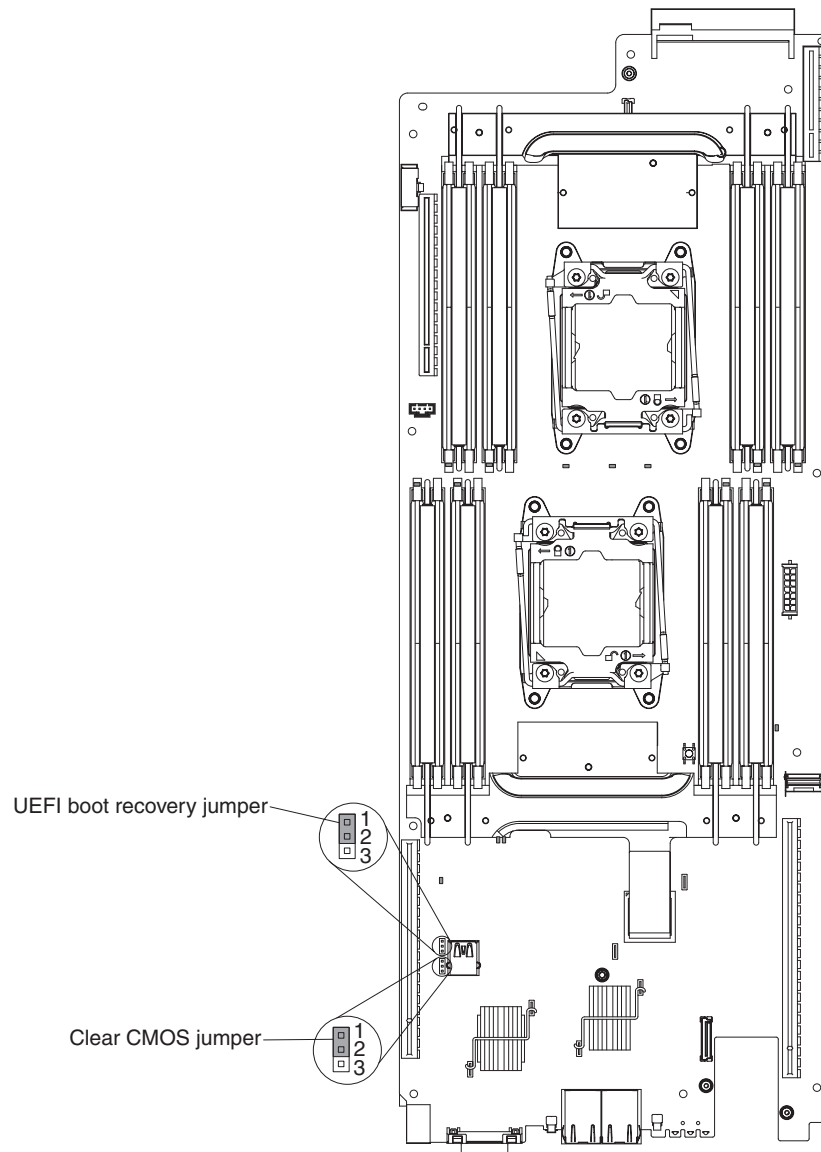


Figure 10. Location of the switches, jumpers, and buttons on the system board

The following table describes the jumpers on the system board.

Table 2. Jumpers definition

Jumper name	Description
Clear CMOS jumper	<ul style="list-style-type: none">• Pins 1 and 2: Keep CMOS data (default)• Pins 2 and 3: Clear CMOS data
UEFI boot backup jumper	<ul style="list-style-type: none">• Pins 1 and 2: Normal (default). Loads the primary server firmware ROM page.• Pins 2 and 3: Boot from backup. Loads the secondary (backup) server firmware ROM page.
Note: <ol style="list-style-type: none">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 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.	

System-board LEDs

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

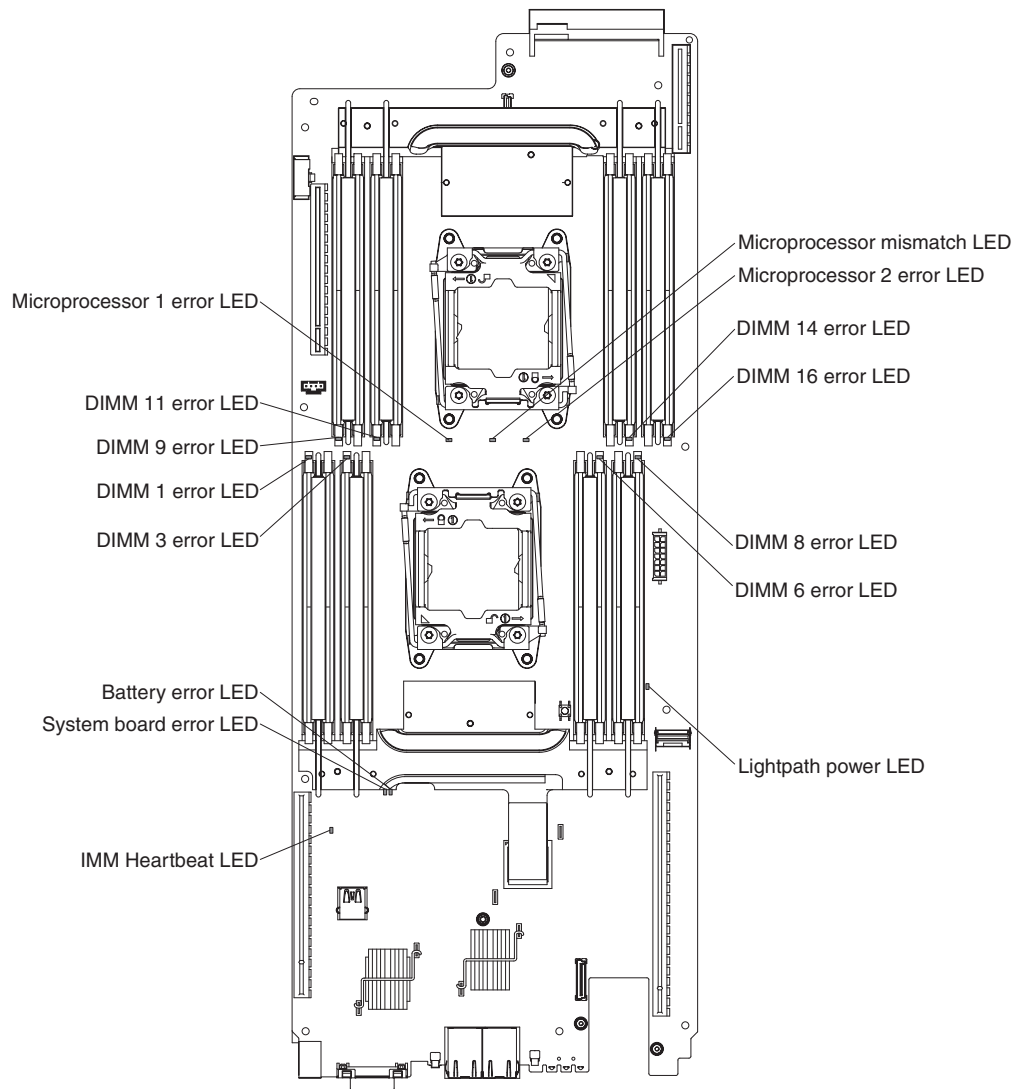


Figure 11. The LEDs on the system board

Installation guidelines

Use the installation guidelines to install the Lenovo NeXtScale nx360 M5 water-cooled technology tray Type 5467, Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469.

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

Before you install optional devices, read the following information:

- Read the safety information in “Safety” on page v and the guidelines in Working inside the server with the power on, and “Handling static-sensitive devices” on page 30. 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://www.ibm.com/support/entry/portal/docdisplay?indocid=TOOL-CENTER>

- Before you install optional hardware, make sure that the server is working correctly. Start the server, and make sure that the operating system starts, if an operating system is installed, or that a 19990305 error code is displayed, indicating that an operating system was not found but the server is otherwise working correctly. If the server is not working correctly, see Running the “Running DSA Preboot diagnostic programs” on page 70 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.
- You do not have to turn off the server to install or replace hot-swap power supplies, hot-swap fans, or hot-plug Universal Serial Bus (USB) devices. However, you must turn off the server before you perform any steps that involve removing or installing adapter cables and you must disconnect the power source from the server before you perform any steps that involve removing or installing a riser card.
- Blue on a component indicates touch points, where you can grip the component to remove it from or install it in the server, open or close a latch, and so on.
- Orange on a component or an orange label on or near a component indicates that the component can be hot-swapped, which means that if the server and operating system support hot-swap capability, you can remove or install the component while the server is running. (Orange can also indicate touch points on hot-swap components.) See the instructions for removing or installing a

specific hot-swap component for any additional procedures that you might have to perform before you remove or install the component.

- When you are finished working on the server, reinstall all safety shields, guards, labels, and ground wires.

System reliability guidelines

The system reliability guidelines are to ensure proper system cooling.

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

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

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.

Chapter 3. Configuration information and instructions

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

Updating the firmware

Use this information to update the system firmware.

Important:

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

You can install code updates that are packaged as an 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. Use UpdateXpress System Pack Installer to acquire and apply UpdateXpress System Packs and individual firmware and device-driver updates. For additional information and to download the UpdateXpress System Pack Installer, go to the ToolsCenter for System x and BladeCenter at <http://www.ibm.com/support/entry/portal/docdisplay?lnodocid=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 UpdateXpress System Pack or UpdateXpress image.

The firmware for the server is periodically updated and is available for download on the Lenovo website. To check for the latest level of firmware, such as the UEFI firmware, device drivers, and Integrated Management Module 2.1 (IMM2.1) firmware, go to <http://www.ibm.com/support/fixcentral>.

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

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

The following list indicates where the firmware is stored:

- UEFI firmware is stored in ROM on the system board.
- IMM2.1 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 35.

- **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 42.

- **Lenovo ServerGuide Setup and Installation CD**

The ServerGuide program provides software-setup tools and installation tools that are designed for the server. Use this CD during the installation of the server to configure basic hardware features, such as an integrated SAS/SATA controller with RAID capabilities, and to simplify the installation of your operating system. For information about using this CD, see “Using the ServerGuide Setup and Installation CD” on page 33.

- **Integrated Management Module 2.1 (IMM2.1)**

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 IMM2.1, see “Using the Integrated Management Module 2.1 (IMM2.1)” on page 43 and the *Integrated Management Module II User's Guide* at <http://www.ibm.com/support/entry/portal/docdisplay?lnocid=migr-5086346>.

- **VMware ESXi embedded hypervisor**

An optional USB flash device with VMware ESXi embedded hypervisor software is available for purchase. Hypervisor is virtualization software that enables multiple operating systems to run on a host system at the same time. The USB embedded hypervisor flash device can be installed in USB connectors 3 and 4 on the system board. For more information about using the embedded hypervisor, see “Using the embedded hypervisor” on page 47.

- **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 IMM2.1 memory and mapping it to the server as a virtual drive

The blue-screen capture feature captures the video display contents before the IMM2.1 restarts the server when the IMM2.1 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 45.

- **Ethernet controller configuration**

For information about configuring the Ethernet controller, see “Configuring the Ethernet controller” on page 48.

- **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 48.

- **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 48.

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

Use this program as an alternative to the Setup utility for modifying UEFI settings and IMM2.1 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 “Lenovo Advanced Settings Utility program” on page 49.

- **Configuring RAID arrays**

For information about configuring RAID arrays, see “Configuring RAID arrays” on page 48.

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?lnodocid=SERV-GUIDE>.

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

ServerGuide features

This information provides an overview of the ServerGuide features.

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

The ServerGuide program has the following features:

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

The ServerGuide program performs the following tasks:

- Sets system date and time
- Detects installed hardware options and provides updated device drivers for most adapters and devices
- Provides diskette-free installation for supported Windows operating systems
- Includes an online readme file with links to tips for your hardware and operating-system installation

Setup and configuration overview

Use this information for the ServerGuide setup and configuration.

When you use the *ServerGuide Setup and Installation* CD, you do not need setup diskettes. You can use the CD to configure any supported Lenovo server model. The setup program provides a list of tasks that are required to set up your server model. On a server with a ServeRAID adapter or SAS/SATA controller with RAID capabilities, you can run the SAS/SATA RAID configuration program to create logical drives.

Note: Features and functions can vary slightly with different versions of the ServerGuide program.

Typical operating-system installation

This section details the ServerGuide typical operating-system installation.

The ServerGuide program can reduce the time it takes to install an operating system. It provides the device drivers that are required for your hardware and for the operating system that you are installing. This section describes a typical ServerGuide operating-system installation.

Note: Features and functions can vary slightly with different versions of the ServerGuide program.

1. After you have completed the setup process, the operating-system installation program starts. (You will need your operating-system CD to complete the installation.)
2. The ServerGuide program stores information about the server model, service processor, hard disk drive controllers, and network adapters. Then, the program checks the CD for newer device drivers. This information is stored and then passed to the operating-system installation program.

3. The ServerGuide program presents operating-system partition options that are based on your operating-system selection and the installed hard disk drives.
4. The ServerGuide program prompts you to insert your operating-system CD and restart the server. At this point, the installation program for the operating system takes control to complete the installation.

Installing your operating system without using ServerGuide

Use this information to install the operating system on the server without using ServerGuide.

If you have already configured the server hardware and you are not using the ServerGuide program to install your operating system, you can download operating-system installation instructions for the server from <http://support.lenovo.com/>.

Using the Setup utility

Use these instructions to start the Setup utility.

Use the Unified Extensible Firmware Interface (UEFI) Setup Utility program to perform the following tasks:

- View configuration information
- View and change assignments for devices and I/O ports
- Set the date and time
- Set and change passwords
- Set the startup characteristics of the server and the order of startup devices
- Set and change settings for advanced hardware features
- View, set, and change settings for power-management features
- View and clear error logs
- Change interrupt request (IRQ) settings
- Resolve configuration conflicts

Starting the Setup utility

Use this information to start up the Setup utility.

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 2.1 (IMM2.1) and diagnostics code, and the version and date.

This choice is on the full Setup utility menu only.

- **System Settings**

Select this choice to view or change the server component settings.

- **Adapters and UEFI Drivers**

Select this choice to view information about the UEFI 1.10 and UEFI 2.0 compliant adapters and drivers installed in the server.

- **Processors**

Select this choice to view or change the processor settings.

- **Memory**

Select this choice to view or change the memory settings.

- **Devices and I/O Ports**

Select this choice to view or change assignments for devices and input/output (I/O) ports. You can configure the serial ports, configure remote console redirection, enable or disable integrated Ethernet controllers, the SAS/SATA controllers, SATA optical drive channels, PCI slots, and video controller. If you disable a device, it cannot be configured, and the operating system will not be able to detect it (this is equivalent to disconnecting the device).

- **Power**

Select this choice to view or change power capping to control consumption, processors, and performance states.

- **Operating Modes**

Select this choice to view or change the operating profile (performance and power utilization).

- **Legacy Support**

Select this choice to view or set legacy support.

Note: Legacy mode is not supported under Microsoft Windows Server 2012 and Microsoft Windows Server 2012 R2.

- **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 2.1 (IMM2.1)**

Select this choice to view or change the settings for the Integrated Management Module 2.1 (IMM2.1).

- **Power Restore Policy**

Select this choice to set the mode of operation after the power lost.

- **Commands on USB Interface**

Select this choice to enable or disable the Ethernet over USB interface on IMM2.1. The default is **Enable**.

- **Network Configuration**

Select this choice to view the system management network interface port, the IMM2.1 MAC address, the current IMM2.1 IP address, and host name; define the static IMM2.1 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 IMM2.1.

- **Reset IMM2.1 to Defaults**

Select this choice to view or reset IMM2.1 to the default settings.

- **Reset IMM2.1**

Select this choice to reset IMM2.1.

- **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 Log**
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 2.1 (IMM2.1).
- 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” 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 40 for more information.

- **Clear Power-on Password**

Select this choice to clear a power-on password. See “Power-on password” on page 40 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 42 for more information.

- **Clear Administrator Password**

Select this choice to clear an administrator password. See “Administrator password” on page 42 for more information.

- **Save Settings**

Select this choice to save the changes that you have made in the settings.

- **Restore Settings**

Select this choice to cancel the changes that you have made in the settings and restore the previous settings.

- **Load Default Settings**

Select this choice to cancel the changes that you have made in the settings and restore the factory settings.

- **Exit Setup**

Select this choice to exit from the Setup utility. If you have not saved the changes that you have made in the settings, you are asked whether you want to save the changes or exit without saving them.

Passwords

From the **User Security** menu choice, you can set, change, and delete a power-on password and an administrator password.

The **User Security** menu choice is on the full Setup utility menu only.

If you set only a power-on password, you must type the power-on password to complete the system startup and to have access to the full Setup utility menu.

An administrator password is intended to be used by a system administrator; it limits access to the full Setup utility menu. If you set only an administrator

password, you do not have to type a password to complete the system startup, but you must type the administrator password to access the Setup utility menu.

If you set a power-on password for a user and an administrator password for a system administrator, you must type the power-on password to complete the system startup. A system administrator who types the administrator password has access to the full Setup utility menu; the system administrator can give the user authority to set, change, and delete the power-on password. A user who types the power-on password has access to only the limited Setup utility menu; the user can set, change, and delete the power-on password, if the system administrator has given the user that authority.

Power-on password:

If a power-on password is set, when you turn on the server, you must type the power-on password to complete the system startup. You can use any combination of 6 - 20 printable ASCII characters for the password.

When a power-on password is set, you can enable the Unattended Start mode, in which the keyboard and mouse remain locked but the operating system can start. You can unlock the keyboard and mouse by typing the power-on password.

If you forget the power-on password, you can regain access to the server in any of the following ways:

- If an administrator password is set, type the administrator password at the password prompt. Start the Setup utility and reset the power-on password.
Attention: If you set an administrator password and then forget it, there is no way to change, override, or remove it. You must replace the system board.
- Remove the battery from the server, wait 30 seconds, and then reinstall it.
- Change the position of the power-on password switch (enable switch 2 of the system board switch block to bypass the password check (see “System-board switches and jumpers” on page 25 for more information).

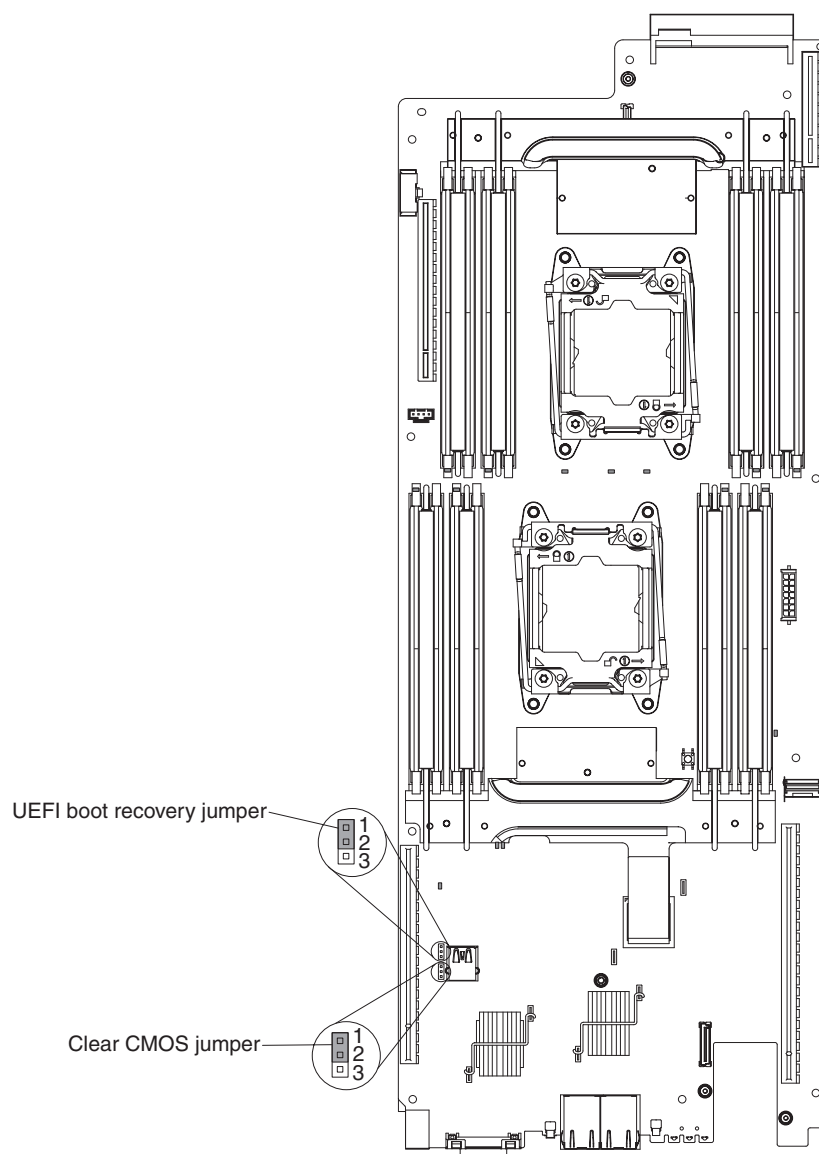


Figure 12. Power-on password switch

Attention: Before you change any switch settings or move any jumpers, turn off the server; then, disconnect all power cords and external cables. See the safety information that begins “Safety” on page v. Do not change settings or move jumpers on any system-board switch or jumper blocks that are not shown in this document.

The default for all of the switches on switch block SW1 is Off.

While the server is turned off, move switch 2 of the switch block SW1 to the On position to enable the power-on password override. You can then start the Setup utility and reset the power-on password. You do not have to return the switch to the previous position.

The power-on password override switch does not affect the administrator password.

Administrator password:

If an administrator password is set, you must type the administrator password for access to the full Setup utility menu. You can use any combination of 6 to 20 printable ASCII characters for the password.

Attention: If you set an administrator password and then forget it, there is no way to change, override, or remove it. You must replace the system board.

Using the Boot Manager

Use this information for the Boot Manager.

About this task

The Boot Manager program is a built-in, menu-driven configuration utility program that you can use to temporarily redefine the first startup device without changing settings in the Setup utility.

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

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

Use this information to start the backup server firmware.

The system board contains a backup copy area for the server firmware. This is a secondary copy of the server firmware that you update only during the process of updating the server firmware. If the primary copy of the server firmware becomes damaged, use this backup copy.

To force the server to start from the backup copy, turn off the server; then, place the UEFI boot backup jumper in the backup position (pins 2 and 3) to enable the UEFI recovery mode. See “System-board switches and jumpers” on page 25 for the location of the UEFI boot backup jumper.

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 back to the primary position (pins 1 and 2).

The UpdateXpress System Pack Installer

The UpdateXpress 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 UpdateXpress System Pack Installer, go to the ToolsCenter for System x and BladeCenter at <http://publib.boulder.ibm.com/infocenter/toolsctr/v1r0/> and click **UpdateXpress System Pack Installer**.

Changing the Power Policy option to the default settings after loading UEFI defaults

The default settings for the Power Policy option are set by the IMM2.1.

About this task

To change the Power Policy option to the default settings, complete the following steps.

Procedure

1. Turn on the server.

Note: Approximately 20 seconds after the server is connected to AC 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 **System Settings > Integrated Management Module**, then set **Power Restore Policy** setting to Restore.
4. Go back to **System Configuration and Boot Management > Save Settings**.
5. Go back and check the **Power Policy** setting to verify that it is set to Restore (the default).

What to do next

Attention: If you set an administrator password and then forget it, there is no way to change, override, or remove it. You must replace the system board.

Using the Integrated Management Module 2.1 (IMM2.1)

The Integrated Management Module 2.1 (IMM2.1) is a second generation of the functions that were formerly provided by the baseboard management controller hardware. It combines service processor functions, video controller, and remote presence function in a single chip.

The IMM2.1 supports the following basic systems-management features:

- Alerts (in-band and out-of-band alerting, PET traps - IPMI style, SNMP, e-mail).
- Auto Boot Failure Recovery (ABR).
- Automatic microprocessor disable on failure and restart in a two-microprocessor configuration when one microprocessor signals an internal error. When one of the microprocessors fail, the server will disable the failing microprocessor and restart with the other microprocessor.
- Automatic Server Restart (ASR) when POST is not complete or the operating system hangs and the operating system watchdog timer times-out. The IMM2.1 might be configured to watch for the operating system watchdog timer and reboot the system after a timeout, if the ASR feature is enabled. Otherwise, the IMM2.1 allows the administrator to generate a nonmaskable interrupt (NMI) by

pressing an NMI button on the light path diagnostics panel for an operating-system memory dump. ASR is supported by IPMI.

- A virtual media key, which enables remote presence support (remote video, remote keyboard/mouse, and remote storage).
- Boot sequence manipulation.
- Command-line interface.
- Configuration save and restore.
- DIMM error assistance. The Unified Extensible Firmware Interface (UEFI) disables a failing DIMM that is detected during POST, and the IMM2.1 lights the associated system error LED and the failing DIMM error LED.
- Environmental monitor with fan speed control for temperature, voltages, fan failure, power supply failure, and power backplane failure.
- Intelligent Platform Management Interface (IPMI) Specification V2.0 and Intelligent Platform Management Bus (IPMB) support.
- Invalid system configuration (CONFIG) LED support.
- Light path diagnostics LEDs indicators to report errors that occur with fans, power supplies, microprocessor, hard disk drives, and system errors.
- Local firmware code flash update
- Nonmaskable interrupt (NMI) detection and reporting.
- Operating-system failure blue screen capture.
- PCI configuration data.
- Power/reset control (power-on, hard and soft shutdown, hard and soft reset, schedule power control).
- Query power-supply input power.
- ROM-based IMM2.1 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, a management utility program:

- **Command-line interface (IPMI Shell)**

The command-line interface provides direct access to server management functions through the IPMI 2.0 protocol. Use the command-line interface to issue commands to control the server power, view system information, and identify the server. You can also save one or more commands as a text file and run the file as a script.

- **Serial over LAN**

Establish a Serial over LAN (SOL) connection to manage servers from a remote location. You can remotely view and change the UEFI settings, restart the server, identify the server, and perform other management functions. Any standard Telnet client application can access the SOL connection.

For more information about IMM2.1, see the *Integrated Management Module 2.1 User's Guide* at <http://www.ibm.com/support/entry/portal/docdisplay?lnocid=migr-5086346>.

Using the remote presence and blue-screen capture features

The remote presence and blue-screen capture features are integrated functions of the Integrated Management Module 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 IMM2.1 memory and mapping it to the server as a virtual drive

The blue-screen capture feature captures the video display contents before the IMM2.1 restarts the server when the IMM2.1 detects an operating-system hang condition. A system administrator can use the blue-screen capture to assist in determining the cause of the hang condition.

Obtaining the IMM2.1 host name

Use this information to obtain the IMM2.1 host name.

About this task

If you are logging on to the IMM2.1 for the first time after installation, the IMM2.1 defaults to DHCP. If a DHCP server is not available, the IMM2.1 uses a static IP address of 192.168.70.125. The default IPv4 host name is "IMM-" (plus the last 12 characters on the IMM2.1 MAC address). The default host name also comes on the IMM2.1 network access label that is on the pull out tab. The IMM2.1 network access tag provides the default host name of the IMM2.1 and does not require you to start the server.

The IPv6 link-local address (LLA) is derived from the IMM2.1 default host name. The IMM2.1 LLA is on the IMM2.1 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 IMM2.1 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 IMM2.1

Use this information to obtain the IP address for the IMM2.1.

About this task

To access the web interface to use the remote presence feature, you need the IP address or host name of the IMM2.1. You can obtain the IMM2.1 IP address through the Setup utility and you can obtain the IMM2.1 host name from the IMM2.1 network access tag. The server comes with a default IP address for the IMM2.1 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 IMM2.1 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 IMM2.1 to which you want to connect.

Note: If you are logging on to the IMM2.1 for the first time after installation, the IMM2.1 defaults to DHCP. If a DHCP host is not available, the IMM2.1 assigns a static IP address of 192.168.70.125. The IMM2.1 network access tag provides the default host name of the IMM2.1 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 IMM2.1 for the first time, you can obtain the user name and password from your system administrator. All login attempts are documented in the system-event log.

Note: The IMM2.1 is set initially with a user name of USERID and password of PASSWORD (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 IMM2.1 GUI and the message “Booting OS or in unsupported OS” is displayed under **System Status > System State**, disable Windows 2008 or 2012 firewall or type the following command in the Windows 2008 or 2012 console. This might also affect blue-screen capture features.

```
netsh firewall set icmpsetting type=8 mode=ENABLE
```

By default, the icmp packet is blocked by Windows firewall. The IMM2.1 GUI will then change to “OS booted” status after you change the setting as indicated above in both the Web and CLI interfaces.

Using the embedded hypervisor

The VMware ESXi embedded hypervisor software is available on the optional Lenovo USB flash device with embedded hypervisor.

About this task

The USB flash device can be installed in USB connectors on the system board (see “System-board internal connectors” on page 24 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.ibm.com/systems/x/os/vmware/esxi/>.

For additional information and instructions, see VMware vSphere 4.1 Documentation at http://www.vmware.com/support/pubs/vs_pages/vsp_pubs_esxi41_e_vc41.html or the *VMware vSphere Installation and Setup Guide* at <http://pubs.vmware.com/vsphere-50/topic/com.vmware.ICbase/PDF/vsphere-esxi-vcenter-server-50-installation-setup-guide.pdf>.

Configuring the Ethernet controller

Use this information to configure the Ethernet controller.

The Ethernet controllers are integrated on the system board. They provide an interface for connecting to a 10 Mbps, 100 Mbps, or 1 Gbps network and provide full-duplex (FDX) capability, which enables simultaneous transmission and reception of data on the network. If the Ethernet ports in the server support auto-negotiation, the controllers detect the data-transfer rate (10BASE-T, 100BASE-TX, or 1000BASE-T) and duplex mode (full-duplex or half-duplex) of the network and automatically operate at that rate and mode.

You do not have to set any jumpers or configure the controllers. However, you must install a device driver to enable the operating system to address the controllers.

To find device drivers and information about configuring the Ethernet controllers, go to <http://support.lenovo.com/>.

Enabling Features on Demand Ethernet software

Use this information to enable Features on Demand Ethernet software.

You can activate the Features on Demand (FoD) software upgrade key for Fibre Channel over Ethernet (FCoE) and iSCSI storage protocols that is integrated in the Integrated Management Module 2.1 (IMM2.1). For more information and instructions for activating the Features on Demand Ethernet software key, see the *Lenovo Features on Demand User's Guide*. To download the document, go to <http://www.ibm.com/systems/x/fod/>, log in, and click **Help**.

Enabling Features on Demand RAID software

Use this information to enable Features on Demand RAID software.

You can activate the Features on Demand (FoD) software upgrade key for RAID that is integrated in the integrated management module. For more information and instructions for activating the Features on Demand RAID software key, see the *Lenovo Features on Demand User's Guide*. To download the document, go to <http://www.ibm.com/systems/x/fod/>, log in, and click **Help**.

Configuring RAID arrays

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

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.

Lenovo Advanced Settings Utility program

The Lenovo 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 IMM2.1 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?lnocid=TOOL-ASU>.

Updating Systems Director

Use this information to update the Systems Director.

About this task

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

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

Installing a newer version

About this task

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

Procedure

1. Check for the latest version of Systems Director:
 - a. Go to <http://www.ibm.com/systems/software/director/resources.html>.

- b. If a newer version of Systems Director than what comes with the server is shown in the drop-down list, follow the instructions on the web page to download the latest version.
2. Install the 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 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 **Systems Director**.
4. From the **Product** list, select **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 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 Lenovo Web site. To download the ASU and update the UUID, complete the following steps.

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

Procedure

1. Download the Advanced Settings Utility (ASU):
 - a. Go to <http://support.lenovo.com/>.
 - b. Click on the **Downloads** tab at the top of the panel.
 - c. Under **ToolsCenter**, select **View ToolsCenter downloads**.
 - d. Select **Advanced Settings Utility (ASU)**.
 - e. Scroll down and click on the link and download the ASU version for your operating system.
2. ASU sets the UUID in the Integrated Management Module 2.1 (IMM2.1). Select one of the following methods to access the Integrated Management Module 2.1 (IMM2.1) 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:
 - *lenovo_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 IMM2.1 internal LAN/USB IP address. The default value is 169.254.95.118.

imm_user_id

The IMM2.1 account (1 of 12 accounts). The default value is USERID.

imm_password

The IMM2.1 account password (1 of 12 accounts). The default value is PASSWORD (with a zero 0 not an O).

Note: If you do not specify any of these parameters, ASU will use the default values. When the default values are used and ASU is unable to access the IMM2.1 using the online authenticated LAN access method, ASU will automatically use the unauthenticated KCS access method.

The following commands are examples of using the userid and password default values and not using the default values:

Example that does not use the userid and password default values:

```
asu set SYSTEM_PROD_DATA.SysInfoUUID <uuid_value> --user <user_id>
--password <password>
```

Example that does use the userid and password default values:

```
asu set SYSTEM_PROD_DATA.SysInfoUUID <uuid_value>
```

- Online KCS access (unauthenticated and user restricted):

You do not need to specify a value for *access_method* when you use this access method.

Example:

```
asu set SYSTEM_PROD_DATA.SysInfoUUID <uuid_value>
```

The KCS access method uses the IPMI/KCS interface. This method requires that the IPMI driver be installed. Some operating systems have the IPMI driver installed by default. ASU provides the corresponding mapping layer. See the *Advanced Settings Utility Users Guide* for more details. You can access the ASU Users Guide from the Lenovo website.

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

- a. Go to <http://support.lenovo.com/>.
 - b. Click on the **Downloads** tab at the top of the panel.
 - c. Under **ToolsCenter**, select **View ToolsCenter downloads**.
 - d. Select **Advanced Settings Utility (ASU)**.
 - e. Scroll down and click on the link and download the ASU version for your operating system. Scroll down and look under **Online Help** to download the *Advanced Settings Utility Users Guide*.
- Remote LAN access, type the command:

Note: When using the remote LAN access method to access IMM2.1 using the LAN from a client, the *host* and the *imm_external_ip* address are required parameters.

```
host <imm_external_ip> [user <imm_user_id>][password <imm_password>]
```

Where:

imm_external_ip

The external IMM2.1 LAN IP address. There is no default value. This parameter is required.

imm_user_id

The IMM2.1 account (1 of 12 accounts). The default value is USERID.

imm_password

The IMM2.1 account password (1 of 12 accounts). The default value is PASSWORD (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?lnocid=TOOL-CENTER>. From the **Lenovo ToolsCenter** page, scroll down for the available tools.

5. Restart the server.

Updating the DMI/SMBIOS data

Use this information to update the DMI/SMBIOS data.

About this task

The Desktop Management Interface (DMI) must be updated when the system board is replaced. Use the Advanced Settings Utility to update the DMI in the UEFI-based server. The ASU is an online tool that supports several operating systems. Make sure that you download the version for your operating system. You can download the ASU from the Lenovo website. To download the ASU and update the DMI, complete the following steps.

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

Procedure

1. Download the Advanced Settings Utility (ASU):
 - a. Go to <http://support.lenovo.com/>.
 - b. Click **Downloads** tab at the top of the panel.
 - c. Under **ToolsCenter**, select **View ToolsCenter downloads**.
 - d. Select **Advanced Settings Utility (ASU)**.
 - e. Scroll down and click on the link and download the ASU version for your operating system.
2. ASU sets the DMI in the Integrated Management Module 2.1 (IMM2.1). Select one of the following methods to access the Integrated Management Module 2.1 (IMM2.1) 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:
 - *lenovo_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 aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa*, where *aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa* is the asset tag number.

[access_method]

The access method that you select to use from the following methods:

- Online authenticated LAN access, type the command:
`[host <imm_internal_ip>] [user <imm_user_id>] [password <imm_password>]`

Where:

imm_internal_ip

The IMM2.1 internal LAN/USB IP address. The default value is 169.254.95.118.

imm_user_id

The IMM2.1 account (1 of 12 accounts). The default value is USERID.

imm_password

The IMM2.1 account password (1 of 12 accounts). The default value is PASSWORD (with a zero 0 not an O).

Note: If you do not specify any of these parameters, ASU will use the default values. When the default values are used and ASU is unable to access the IMM2.1 using the online authenticated LAN access method, ASU will automatically use the unauthenticated KCS access method.

The following commands are examples of using the userid and password default values and not using the default values:

Examples that do not use the userid and password default values:

```
asu set SYSTEM_PROD_DATA.SysInfoProdName <m/t_model>
--user <imm_user_id> --password <imm_password>
asu set SYSTEM_PROD_DATA.SysInfoSerialNum <s/n> --user <imm_user_id>
--password <imm_password>
```

```
asu set SYSTEM_PROD_DATA.SysEncloseAssetTag <asset_tag>
--user <imm_user_id> --password <imm_password>
```

Examples that do use the userid and password default values:

```
asu set SYSTEM_PROD_DATA.SysInfoProdName <m/t_model>
asu set SYSTEM_PROD_DATA.SysInfoSerialNum <s/n>
asu set SYSTEM_PROD_DATA.SysEncloseAssetTag <asset_tag>
```

- Online KCS access (unauthenticated and user restricted):

You do not need to specify a value for *access_method* when you use this access method.

The KCS access method uses the IPMI/KCS interface. This method requires that the IPMI driver be installed. Some operating systems have the IPMI driver installed by default. ASU provides the corresponding mapping layer. To download the *Advanced Settings Utility Users Guide*, complete the following steps:

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

- a. Go to <http://support.lenovo.com/>.
 - b. Click **Downloads** tab at the top of the panel.
 - c. Under **ToolsCenter**, select **View ToolsCenter downloads**.
 - d. Select **Advanced Settings Utility (ASU)**.
 - e. Scroll down and click on the link and download the ASU version for your operating system. Scroll down and look under **Online Help** to download the *Advanced Settings Utility Users Guide*.
- The following commands are examples of using the userid and password default values and not using the default values:

Examples that do not use the userid and password default values:

```
asu set SYSTEM_PROD_DATA.SysInfoProdName <m/t_model>
asu set SYSTEM_PROD_DATA.SysInfoSerialNum <s/n>
asu set SYSTEM_PROD_DATA.SysEncloseAssetTag <asset_tag>
```

- Remote LAN access, type the command:

Note: When using the remote LAN access method to access IMM2.1 using the LAN from a client, the *host* and the *imm_external_ip* address are required parameters.

```
host <imm_external_ip> [user <imm_user_id>][password <imm_password>]
```

Where:

imm_external_ip

The external IMM2.1 LAN IP address. There is no default value. This parameter is required.

imm_user_id

The IMM2.1 account (1 of 12 accounts). The default value is USERID.

imm_password

The IMM2.1 account password (1 of 12 accounts). The default value is PASSWORD (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?lnocid=TOOL-CENTER>. From the **Lenovo ToolsCenter** page, scroll down for the available tools.

5. Restart the server.

Chapter 4. Troubleshooting

This chapter describes the diagnostic tools and troubleshooting information that are available to help you solve problems that might occur in the server.

If you cannot diagnose and correct a problem by using the information in this chapter, see Appendix D, “Getting help and technical assistance,” on page 463 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 call 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 for information about using light path diagnostics LEDs.
 - **Event logs:** See “Event logs” on page 66 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 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 your approved warranty service provider. For instructions for running DSA, see the *Dynamic System Analysis Installation and User's Guide*.

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?lnocid=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 the 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?lnocid=SERV-XPRESS> and "Updating the firmware" on page 31. For more information about the Bootable Media Creator, see <http://www.ibm.com/support/entry/portal/docdisplay?lnocid=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 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 60. For information about configuring the server, see Chapter 3, “Configuration information and instructions,” on page 31.
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, software, or devices, go to .
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 .
8. **Use the troubleshooting tables.** See “Troubleshooting by symptom” on page 72 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 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. 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 an approved warranty service provider for assistance.

To open an online service request, go to http://www.ibm.com/support/entry/portal/Open_service_request. Be prepared to provide information about any error codes and collected data and the problem determination procedures that you have used.

Service bulletins

Lenovo continually updates the support website with the latest tips and techniques that you can use to solve problem that you might have with the Lenovo NeXtScale nx360 M5 water-cooled technology tray server.

To find service bulletins that are available for the Lenovo NeXtScale nx360 M5 water-cooled technology tray server, go to <http://support.lenovo.com/> and search for 5467, 5468, and 5469, and retain.

Checkout procedure

The checkout procedure is the sequence of tasks that you should follow to diagnose a problem in the server.

About the checkout procedure

Before you perform the checkout procedure for diagnosing hardware problems, review the following information.

- Read the safety information that begins on page “Safety” on page v.
- Lenovo Dynamic System Analysis (DSA) provides the primary methods of testing the major components of the server, such as the system board, Ethernet controller, keyboard, mouse (pointing device), serial ports, and hard disk drives. You can also use them to test some external devices. If you are not sure whether a problem is caused by the hardware or by the software, you can use the diagnostic programs to confirm that the hardware is working correctly.
- When you run DSA, a single problem might cause more than one error message. When this happens, correct the cause of the first error message. The other error messages usually will not occur the next time you run DSA.

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 75 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 401. If the server is halted and no error message is displayed, see “Troubleshooting by symptom” on page 72 and “Solving undetermined problems” on page 85.
- For information about power-supply problems, see “Solving power problems” on page 83, “Power problems” on page 79, and “Power-supply LEDs” on page 63.
- For intermittent problems, check the event log; see “Event logs” on page 66 and Appendix C, “DSA diagnostic test results,” on page 413.

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 63).
 - 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 72.
 - h. Check the system-error LED on the operator information panel. If it is lit, check the light path diagnostics LEDs (see Light path diagnostics).
 - i. Check for the following results:
 - Successful completion of POST (see “POST” on page 68 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 72; if necessary, see “Solving undetermined problems” on page 85.
 - **Yes:** Run DSA (see “Running DSA Preboot diagnostic programs” on page 70).
 - If DSA reports an error, follow the instructions in Appendix C, “DSA diagnostic test results,” on page 413.
 - If DSA does not report an error but you still suspect a problem, see “Solving undetermined problems” on page 85.

Diagnostic tools

The following tools are available to help you diagnose and solve hardware-related problems.

- **LCD system information display panel**

Use LCD system information display panel to diagnose system errors quickly.

- **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 66 for more information.

- **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 IMM2.1 provides advanced service-processor control, monitoring, and alerting function. If an environmental condition exceeds a threshold or if a system component fails, the IMM2.1 lights LEDs to help you diagnose the problem, records the error in the IMM2.1 event log, and alerts you to the problem. Optionally, the IMM2.1 also provides a virtual presence capability for remote server management capabilities. The IMM2.1 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), see “Using the Integrated Management Module 2.1 (IMM2.1)” on page 43, Appendix A, “Integrated Management Module 2.1 (IMM2.1) error messages,” on page 193, and the *Integrated Management Module II User’s Guide* at <http://www.ibm.com/support/entry/portal/docdisplay?lnocid=migr-5086346>.

- **Lenovo Dynamic System Analysis**

Two editions of Lenovo Dynamic System Analysis (DSA) are available for diagnosing problems, DSA Portable and DSA Preboot:

- DSA Portable

DSA Portable collects and analyzes system information to aid in diagnosing server problems. DSA Portable runs on the server operating system and collects the following information about the server:

- Drive health information
- Event logs for ServeRAID controllers and service processors
- IMM2.1 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 2.1 (IMM2.1)) 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 2.1 (IMM2.1) event log (as the ASM event log), and the operating-system event logs. You can send the DSA log as a file to Lenovo Support (when requested by Lenovo Support) or view the information as a text file or HTML file.

Note: Use the latest available version of DSA to make sure you are using the most recent configuration data. For documentation and download information for DSA, see <http://www.ibm.com/systems/management>.

For additional information, see “Lenovo Dynamic System Analysis” on page 69 and Appendix C, “DSA diagnostic test results,” on page 413.

– 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
- 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 2.1 (IMM2.1)) status and configuration
- System configuration
- Vital product data, firmware, and UEFI configuration

DSA Preboot also provides diagnostics for the following system components (when they are installed):

1. Emulex network adapter
2. IMM2.1 I2C bus
3. Light path diagnostics panel
4. Memory modules
5. Microprocessors
6. Optical devices (CD or DVD)
7. SAS or SATA drives
8. LSI controller
9. Broadcom network adapter
10. FusionIO storage
11. Intel GPU
12. Nvidia GPU

See “Running DSA Preboot diagnostic programs” on page 70 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 72 for more information.

Power-supply LEDs

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

- One microprocessor in microprocessor socket 1
- One 2 GB DIMM on the system board
- One power supply
- Power cord
- Four cooling fans

- One PCI riser-card assembly in PCI connector 1

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.

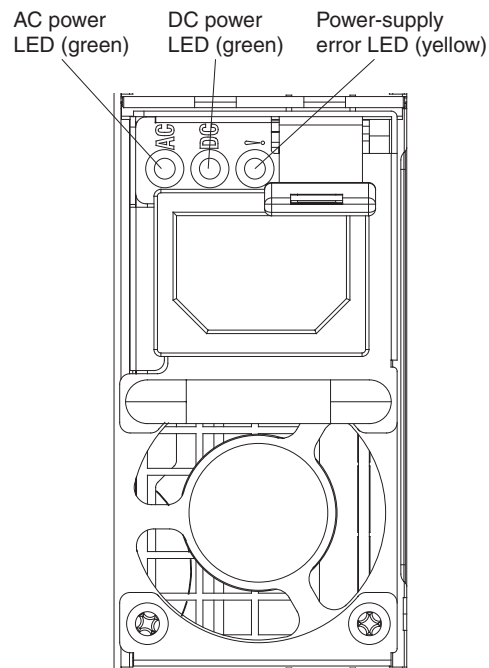


Figure 13. AC power-supply LEDs

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	Off	Normal operation.		

AC power-supply LEDs			Description	Action	Notes
AC	DC	Error (!)			
Off	Off	Off	No ac power to the server or a problem with the ac power source.	<ol style="list-style-type: none"> 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	Off	The power supply has failed.	Replace the power supply.	
Off	On	On	The power supply has failed.	Replace the power supply.	
On	Off	Off	Power-supply not fully seated, faulty system board, or the power supply has failed.	<ol style="list-style-type: none"> 1. Reseat the power supply. 2. Follow actions in “Power problems” on page 79. 3. Follow actions in “Solving power problems” on page 83 until the problem is solved. 	Typically indicates a power-supply is not fully seated.
On	Off	On	The power supply has failed.	Replace the power supply.	
On	On	On	The power supply has failed.	Replace the power supply.	

System pulse LEDs

Use this information to view the system pulse LEDs.

The following LEDs are on the system board and monitor the system power-on and power-off sequencing and boot progress (see “System-board LEDs” on page 27 for the location of these LEDs).

Table 3. System pulse LEDs

LED	Description	Action
RTMM heartbeat	Power-on and power-off sequencing.	<ol style="list-style-type: none"> 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 3. System pulse LEDs (continued)

LED	Description	Action
IMM2 heartbeat	IMM2 heartbeat boot process.	<p>The following steps describe the different stages of the IMM2 heartbeat sequencing process.</p> <ol style="list-style-type: none"> 1. When this LED is blinking fast (approximately 4Hz), this indicates, that the IMM2 code is in the loading process. 2. When this LED goes off momentarily, this indicates that the IMM2 code has loaded completely. 3. When this LED goes off momentarily and then starts blinking slowing (approximately 1Hz), this indicates that IMM2 is fully operational. You can now press the power-control button to power-on the server. 4. If this LED does not blink within 30 seconds of connecting a power source to the server, (trained technician only) replace the system board.

Event logs

Error codes and messages are displayed in POST event log, system-event log, Integrated Management Module 2.1 (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 35). For more information about POST error codes, see Appendix B, “UEFI/POST diagnostic codes,” on page 401.
- **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 2.1 (IMM2.1). 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 193.

Messages are listed on the left side of the screen, and details about the selected message are displayed on the right side of the screen. To move from one entry to the next, use the Up Arrow (↑) and Down Arrow (↓) keys.

Some IMM2.1 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) event log:** This log contains a filtered subset of all IMM2.1, POST, and system management interrupt (SMI) events. You can view the IMM2.1 event log through the IMM2.1 web interface. For more information, see “Logging on to the web interface” on page 46. You can also view the IMM2.1 event log through the Dynamic System Analysis

(DSA) program (as the ASM event log). For more information about IMM2.1 error messages, see Appendix A, “Integrated Management Module 2.1 (IMM2.1) error messages,” on page 193.

- **DSA event log:** This log is generated by the Dynamic System Analysis (DSA) program, and it is a chronologically ordered merge of the system-event log (as the IPMI event log), the IMM2.1 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”). For more information about DSA and DSA messages, see “Lenovo Dynamic System Analysis” on page 69 and Appendix C, “DSA diagnostic test results,” on page 413.

Viewing event logs through the Setup utility

Use this information to view the 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 Log** and use one of the following procedures:
 - To view the POST event log, select **POST Event Viewer**.
 - To view the system-event log, select **System Event Log**.

Viewing event logs without restarting the server

Use this information to view the event logs without restarting the server.

If the server is not hung and the IMM2.1 is connected to a network, methods are available for you to view one or more event logs without having to restart the server.

If you have installed Dynamic System Analysis (DSA) Portable, you can use it to view the system-event log (as the IPMI event log), or the IMM2.1 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?lnodocid=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 Lenovo Linux platforms**.

You can view the IMM2.1 event log through the **Event Log** link in the Integrated Management Module 2.1 (IMM2.1) web interface. For more information, see “Logging on to the web interface” on page 46.

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 4. 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: <ul style="list-style-type: none"> • Run DSA Portable to view the diagnostic event log (requires IPMI driver) or create an output file that you can send to Lenovo service and support (using ftp or local copy). • Use IPMItool to view the system-event log (requires IPMI driver). • Use the web browser interface to the IMM2.1 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).	<ul style="list-style-type: none"> • Run DSA Portable to view the diagnostic event log (requires IPMI driver) or create an output file that you can send to Lenovo service and support (using ftp or local copy). • Use IPMItool to view the system-event log (requires IPMI driver). • Use the web browser interface to the IMM2.1 to view the system-event log locally (requires RNDIS USB LAN driver).
The server is not hung and the Integrated Management Module 2.1 (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 IMM2.1 host name” on page 45 and “Logging on to the web interface” on page 46.
The server is hung, and no communication can be made with the IMM2.1.	<ul style="list-style-type: none"> • If DSA Preboot is installed, restart the server and press F2 to start DSA Preboot and view the event logs (see “Running DSA Preboot diagnostic programs” on page 70 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 67.

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 IMM2.1 system-event log, select **System Event Log > 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 401 for more information.

If POST detects a problem, an error message is sent to the POST event log, see “Event logs” on page 66 for more information.

Lenovo Dynamic System Analysis

Lenovo Dynamic System Analysis (DSA) collects and analyzes system information to aid in diagnosing server problems.

DSA collects the following information about the server:

- Drive health information
- Event logs for ServeRAID controllers and service processors
- Hardware inventory, including PCI and USB information
- Installed applications and hot fixes (available in DSA Portable only)
- Kernel modules (available in DSA Portable only)
- Light path diagnostics status
- Network interfaces and settings
- Performance data and details about processes that are running
- RAID controller configuration
- Service processor (Integrated Management Module 2.1 (IMM2.1)) status and configuration
- System configuration
- Vital product data and firmware information

For system-specific information about the action that you should take as a result of a message that DSA generates, see Appendix C, “DSA diagnostic test results,” on page 413.

If you cannot find a problem by using DSA, see “Solving undetermined problems” on page 85 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?lnocid=SERV-DSA>.

DSA editions

Two editions of Dynamic System Analysis are available.

- **DSA Portable**

DSA Portable Edition runs within the operating system; you do not have to restart the server to run it. It is packaged as a self-extracting file that you download from the web. When you run the file, it self-extracts to a temporary folder and performs comprehensive collection of hardware and operating-system information. After it runs, it automatically deletes the temporary files and folder and leaves the results of the data collection and diagnostics on the server.

If you are unable to restart the server, use DSA Portable.

- **DSA Preboot**

DSA Preboot runs outside of the operating system; you must restart the server to run it. It is provided in the flash memory on the server, or you can create a bootable media such as a CD, DVD, ISO, USB, or PXE using the Lenovo ToolsCenter Bootable Media Creator (BoMC). For more details, see the *BoMC User Guide* at <http://www.ibm.com/support/entry/portal/docdisplay?lnocid=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

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

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

Running 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 Lenovo support to aid in diagnosing the server problems.

Automated service request (call home)

Lenovo provides tools that can automatically collect and send data or call Lenovo Support when an error is detected.

These tools can help Lenovo Support speed up the process of diagnosing problems. The following sections provide information about the call home tools.

Lenovo Electronic Service Agent

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

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

Error messages

This section provides the list of error codes and messages for UEFI/POST, IMM2.1, and DSA that are generated when a problem is detected.

See Appendix B, “UEFI/POST diagnostic codes,” on page 401, Appendix A, “Integrated Management Module 2.1 (IMM2.1) error messages,” on page 193, and Appendix C, “DSA diagnostic test results,” on page 413 for more information.

Error messages

This section provides the list of error codes and messages for UEFI/POST, IMM2.1, and DSA that are generated when a problem is detected.

See Appendix B, “UEFI/POST diagnostic codes,” on page 401, Appendix A, “Integrated Management Module 2.1 (IMM2.1) error messages,” on page 193, and Appendix C, “DSA diagnostic test results,” on page 413 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 413 for information about testing the server and “Running DSA Preboot diagnostic programs” on page 70 for additional information about running DSA Preboot program. For additional information to help you solve problems, see “Start here” on page 57.

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; if it is lit, check the light path diagnostics LEDs (see Light path diagnostics).
2. Remove the software or device that you just added.
3. Run Lenovo Dynamic System Analysis (DSA) to determine whether the server is running correctly (for information about using DSA, see Appendix C, “DSA diagnostic test results,” on page 413).
4. Reinstall the new software or new device.

General problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the Lenovo support website at <http://support.lenovo.com/> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 5. General symptoms and actions

Symptom	Action
A cover latch is broken, an LED is not working, or a similar problem has occurred.	If the part is a CRU, replace it. If the part is a microprocessor or the system board, the part must be replaced by a trained technician.
The server is hung while the screen is on. Cannot start the Setup utility by pressing F1.	<ol style="list-style-type: none"> 1. See “Nx-boot failure” on page 90 for more information. 2. See “Recovering the server firmware (UEFI update failure)” on page 87 for more information.

Hypervisor problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the Lenovo support website at <http://support.lenovo.com/> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 6. Hypervisor's symptoms and actions

Symptom	Action
If an optional embedded hypervisor flash device is not listed in the expected boot order, does not appear in the list of boot devices, or a similar problem has occurred.	<ol style="list-style-type: none"> 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 Installing a USB embedded hypervisor flash device). 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

- 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 Lenovo support website at <http://support.lenovo.com/> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 7. Intermittent problems and actions.

Symptom	Action
A problem occurs only occasionally and is difficult to diagnose.	<ol style="list-style-type: none">1. Make sure that all cables and cords are connected securely to the rear of the server and attached devices.2. Check the system-error log or IMM2.1 event log (see “Event logs” on page 66).

Keyboard, mouse, or USB-device problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the Lenovo support website at <http://support.lenovo.com/> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 8. Keyboard, mouse, or USB-device's symptoms and actions

Symptom	Action
All or some keys on the keyboard do not work.	<ol style="list-style-type: none">1. Make sure that:<ul style="list-style-type: none">• 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 keyboardless 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.
The mouse or USB-device does not work.	<ol style="list-style-type: none">1. Make sure that:<ul style="list-style-type: none">• 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

- 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 Lenovo support website at <http://support.lenovo.com/> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 9. Memory problems and actions

Symptom	Action
The amount of system memory that is displayed is less than the amount of installed physical memory.	<p>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.</p> <ol style="list-style-type: none"> 1. Make sure that: <ul style="list-style-type: none"> • No error LEDs are lit on the operator information panel. • No DIMM error LEDs are lit on the system board. • 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: <ul style="list-style-type: none"> • 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 DSA Preboot diagnostic programs” on page 70). 5. Make sure that there is no memory mismatch when the server is at the minimum memory configuration. 6. Add one pair of DIMMs at a time, making sure that the DIMMs in each pair match. 7. Reseat the DIMM. 8. Re-enable all DIMMs using the Setup utility, and then restart the server. 9. Replace the following components one at a time, in the order shown, restarting the server each time: <ol style="list-style-type: none"> a. DIMMs b. (Trained technician only) Replace the system board
Multiple rows of DIMMs in a branch are identified as failing.	<p>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.</p> <ol style="list-style-type: none"> 1. Reseat the DIMMs; then, restart the server. 2. Replace the failing DIMM. 3. (Trained technician only) Replace the system board

Microprocessor problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.

- Go to the Lenovo support website at <http://support.lenovo.com/> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 10. Microprocessor's symptoms and actions

Symptom	Action
When using the Core-I3 or Pentium microprocessor and the Integrated Graphics Device (IGD) has been enabled in the Setup utility, the video controller can display a yellow color exclamation mark under the Windows OS device manager.	<ol style="list-style-type: none"> 1. Run the Setup utility and select System settings > Device and I/O Ports > Internal Graphics. 2. Set the value to Disable.

Monitor problems

Some Lenovo monitors have their own self-tests. If you suspect a problem with your monitor, see the documentation that comes with the monitor for instructions for testing and adjusting the monitor. If you cannot diagnose the problem, call for service.

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the Lenovo support website at <http://support.lenovo.com/> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 11. Monitor and video's symptoms and actions.

Symptom	Action
Testing the monitor.	<ol style="list-style-type: none"> 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 11. Monitor and video's symptoms and actions (continued).

Symptom	Action
The screen is blank.	<ol style="list-style-type: none"> 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. Make sure that: <ul style="list-style-type: none"> • The server is turned on. If there is no power to the server, see "Power problems" on page 79. • The monitor cables are connected correctly. • The monitor is turned on and the brightness and contrast controls are adjusted correctly. • No POST errors are generated when the server is turned on. 3. Make sure that the correct server is controlling the monitor, if applicable. 4. Make sure that damaged server firmware is not affecting the video; see "Updating the firmware" on page 31. 5. Observe the checkpoint LEDs on the system board; if the codes are changing, go to next step. 6. Replace the following components one at a time, in the order shown, restarting the server each time: <ol style="list-style-type: none"> a. Monitor b. Video adapter (if one is installed) c. (Trained technician only) System board 7. See "Solving undetermined problems" on page 85.
The monitor works when you turn on the server, but the screen goes blank when you start some application programs.	<ol style="list-style-type: none"> 1. Make sure that: <ul style="list-style-type: none"> • 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 DSA Preboot diagnostic programs" on page 70). <ul style="list-style-type: none"> • If the server passes the video diagnostics, the video is good; see "Solving undetermined problems" on page 85. • (Trained technician only) If the server fails the video diagnostics, replace the system board.
The monitor has screen jitter, or the screen image is wavy, unreadable, rolling, or distorted.	<ol style="list-style-type: none"> 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 in.) apart, and turn on the monitor. Notes: <ol style="list-style-type: none"> a. To prevent diskette drive read/write errors, make sure that the distance between the monitor and any external diskette drive is at least 76 mm (3 in.). b. Non-Lenovo monitor cables might cause unpredictable problems. 2. Reseat the monitor and cable. 3. Replace the following components one at a time, in the order shown, restarting the server each time: <ol style="list-style-type: none"> a. Monitor b. (Trained technician only) System board

Table 11. Monitor and video's symptoms and actions (continued).

Symptom	Action
Wrong characters appear on the screen.	<ol style="list-style-type: none"> 1. If the wrong language is displayed, update the server firmware to the latest level (see "Updating the firmware" on page 31) with the correct language. 2. Reseat the monitor and cable. 3. Replace the following components one at a time, in the order shown, restarting the server each time: <ol style="list-style-type: none"> a. Monitor b. (Trained technician only) System board

Network connection problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the Lenovo support website at <http://support.lenovo.com/> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 12. Network connection problems and actions

Symptom	Action
Log in failed by using LDAP account with SSL enabled.	<ol style="list-style-type: none"> 1. Make sure the license key is valid. 2. Generate a new license key and log in again.

Optional-device problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the Lenovo support website at <http://support.lenovo.com/> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 13. Optional-device problems and actions.

Symptom	Action
A Lenovo optional device that was just installed does not work.	<ol style="list-style-type: none"> 1. Make sure that: <ul style="list-style-type: none"> • 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 13. Optional-device problems and actions (continued).

Symptom	Action
A Lenovo optional device that worked previously does not work now.	<ol style="list-style-type: none"> 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. Reseat the failing device. 4. Replace the failing device.

Power problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the Lenovo support website at <http://support.lenovo.com/> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 14. Power problems and actions

Symptom	Action
<p>The power-control button does not work, and the reset button does not work (the server does not start).</p> <p>Note: The power-control button will not function until approximately 5 to 10 seconds after the server has been connected to power.</p>	<ol style="list-style-type: none"> Make sure that the power-control button is working correctly: <ol style="list-style-type: none"> Disconnect the server power cords. Reconnect the power cords. (Trained technician only) Reseat the operator information panel cable, and then repeat steps 1a and 1b. <ul style="list-style-type: none"> (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 and jumpers" on page 25). If the server starts, reseat the operator information panel. If the problem remains, replace the operator information panel. Make sure that the reset button is working correctly: <ul style="list-style-type: none"> Disconnect the server power cord. Reconnect the power cord. Make sure that : <ol style="list-style-type: none"> 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 DIMM is fully seated. The LEDs on the power supply do not indicate a problem. (Trained technician only) The microprocessors are installed in the correct sequence. Reseat the following components: <ol style="list-style-type: none"> DIMMs (Trained technician only) Power-supply cables to all internal components (Trained technician only) Power switch connector Replace the following components one at a time, in the order shown, restarting the server each time: <ol style="list-style-type: none"> DIMMs Power supply (Trained technician only) System board 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. See "Power-supply LEDs" on page 63. See "Solving undetermined problems" on page 85.
<p>The server does not turn off.</p>	<ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> Press Ctrl+Alt+Delete. Turn off the server by pressing the power-control button for 5 seconds. Restart the server. If the server fails POST and the power-control button does not work, disconnect the power cord for 5 seconds; then, reconnect the power cord and restart the server. If the problem remains or if you are using an ACPI-aware operating system, suspect the system board.

Table 14. Power problems and actions (continued)

Symptom	Action
The server unexpectedly shuts down, and the LEDs on the operator information panel are not lit.	See "Solving undetermined problems" on page 85.

Serial port problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the Lenovo support website at <http://support.lenovo.com/> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 15. Serial port problems and actions

Symptom	Action
The number of serial ports that are identified by the operating system is less than the number of installed serial ports.	<ol style="list-style-type: none"> 1. Make sure that: <ul style="list-style-type: none"> • 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.
A serial device does not work.	<ol style="list-style-type: none"> 1. Make sure that: <ul style="list-style-type: none"> • 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. 2. Reseat the following components: <ol style="list-style-type: none"> a. Failing serial device b. Serial cable 3. Replace the following components one at a time, in the order shown, restarting the server each time: <ol style="list-style-type: none"> a. Failing serial device b. Serial cable c. (Trained technician only) System board

ServerGuide problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the Lenovo support website at <http://support.lenovo.com/> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 16. ServerGuide problems and actions

Symptom	Action
The <i>ServerGuide Setup and Installation</i> CD will not start.	<ol style="list-style-type: none"> 1. Make sure that the server supports the ServerGuide program and has a startable (bootable) DVD drive. 2. If the startup (boot) sequence settings have been changed, make sure that the DVD drive is first in the startup sequence. 3. If more than one DVD drive is installed, make sure that only one drive is set as the primary drive. Start the CD from the primary drive.
The ServeRAID Manager program cannot view all installed drives, or the operating system cannot be installed.	<ol style="list-style-type: none"> 1. Make sure that the hard disk drive is connected correctly. 2. Make sure that the SAS hard disk drive cables are securely connected.
The operating-system installation program continuously loops.	Make more space available on the hard disk.
The ServerGuide program will not start the operating-system CD.	Make sure that the operating-system CD is supported by the ServerGuide program. For a list of supported operating-system versions, go to http://www.ibm.com/support/entry/portal/docdisplay?lnodocid=SERV-GUIDE , click the link for your ServerGuide version, and scroll down to the list of supported Microsoft Windows operating systems.
The operating system cannot be installed; the option is not available.	Make sure that the server supports the operating system. If it does, either no logical drive is defined (SCSI RAID servers), or the ServerGuide System Partition is not present. Run the ServerGuide program and make sure that setup is complete.

Software problems

- Follow the suggested actions in the order in which they are listed in the Action column until the problem is solved.
- If an action step is preceded by '(Trained technician only)', that step must be performed only by a Trained technician.
- Go to the Lenovo support website at <http://support.lenovo.com/> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 17. Software problems and actions

Symptom	Action
You suspect a software problem.	<ol style="list-style-type: none"> 1. To determine whether the problem is caused by the software, make sure that: <ul style="list-style-type: none"> • 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

- 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 Lenovo support website at <http://support.lenovo.com/> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 18. Universal Serial Bus (USB) port problems and actions

Symptom	Action
A USB device does not work.	<ol style="list-style-type: none">1. Make sure that:<ul style="list-style-type: none">• 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 35 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.

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. Turn on the server and check the lit LEDs on the system board (see "System-board LEDs" on page 27).
4. Turn off the server and disconnect all power cords.
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 "Solving undetermined problems" on page 85).
6. Reconnect all ac power cords and turn on the server. If the server starts successfully, reseal the adapters and devices one at a time until the problem is isolated.

What to do next

If the server does not start from the minimum configuration, see "Power-supply LEDs" on page 63 to replace the components in the minimum configuration one at a time until the problem is isolated.

Solving Ethernet controller problems

Use this information to solve the Ethernet controller problems.

About this task

The method that you use to test the Ethernet controller depends on which operating system you are using. See the operating-system documentation for information about Ethernet controllers, and see the Ethernet controller device-driver readme file.

Try the following procedures:

Procedure

1. Make sure that the correct device drivers, which come with the server are installed and that they are at the latest level.
2. Make sure that the Ethernet cable is installed correctly.
 - The cable must be securely attached at all connections. If the cable is attached but the problem remains, try a different cable.
 - If you set the Ethernet controller to operate at 100 Mbps, you must use Category 5 cabling.
 - If you directly connect two servers (without a hub), or if you are not using a hub with X ports, use a crossover cable. To determine whether a hub has an X port, check the port label. If the label contains an X, the hub has an X port.
3. Determine whether the hub supports auto-negotiation. If it does not, try configuring the integrated Ethernet controller manually to match the speed and duplex mode of the hub.
4. Check the Ethernet controller LEDs on the rear panel of the server. These LEDs indicate whether there is a problem with the connector, cable, or hub.
 - The Ethernet link status LED is lit when the Ethernet controller receives a link pulse from the hub. If the LED is off, there might be a defective connector or cable or a problem with the hub.
 - The Ethernet transmit/receive activity LED is lit when the Ethernet controller sends or receives data over the Ethernet network. If the Ethernet transmit/receive activity is off, make sure that the hub and network are operating and that the correct device drivers are installed.
5. Check the LAN activity LED on the rear of the server. The LAN activity LED is lit when data is active on the Ethernet network. If the LAN activity LED is off, make sure that the hub and network are operating and that the correct device drivers are installed.
6. Check for operating-system-specific causes of the problem.
7. Make sure that the device drivers on the client and server are using the same protocol.

What to do next

If the Ethernet controller still cannot connect to the network but the hardware appears to be working, the network administrator must investigate other possible causes of the error.

Solving undetermined problems

If Dynamic System Analysis (DSA) cannot diagnose the failure or if the server is inoperative, use the information in this section to solve the undetermined problems.

About this task

If you suspect that a software problem is causing failures (continuous or intermittent), see “Software problems” on page 82.

Corrupted data in CMOS memory or corrupted UEFI firmware can cause undetermined problems. To reset the CMOS data, use the CMOS clear jumper (JP1) to clear the CMOS memory and override the power-on password; see “System-board internal connectors” on page 24 for more information. If you suspect that the UEFI firmware is corrupted, see “Recovering the server firmware (UEFI update failure)” on page 87.

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-Lenovo devices.
 - Each adapter.
 - Hard disk drives.

Note: The minimum configuration required for the server to start is one microprocessor and one 4 GB DIMM.

4. Turn on the server. If the problem remains, suspect the following components in the following order:
 - a. Power supply
 - b. Memory
 - c. Microprocessor
 - d. System board

What to do next

If the problem is solved when you remove an adapter from the server but the problem recurs when you reinstall the same adapter, suspect the adapter; if the problem recurs when you replace the adapter with a different one, suspect the riser card.

If you suspect a networking problem and the server passes all the system tests, suspect a network cabling problem that is external to the server.

Problem determination tips

Because of the variety of hardware and software combinations that can encounter, use the following information to assist you in problem determination.

If possible, have this information available when requesting assistance from Lenovo.

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.

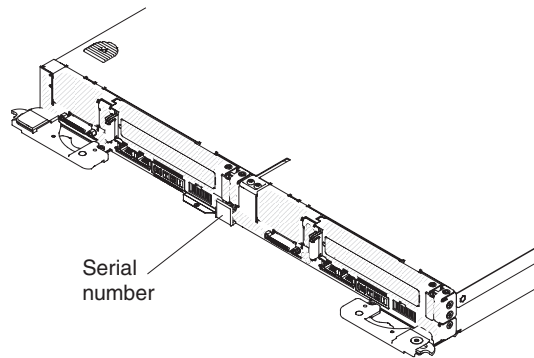


Figure 14. ID label

- 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 463 for information about calling Lenovo for service.

Recovering the server firmware (UEFI update failure)

Use this information to recover the server firmware.

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

If the server firmware has become corrupted, such as from a power failure during an update, you can recover the server firmware in the following way:

- **In-band method:** Recover server firmware, using either the boot block jumper (Automated Boot Recovery) and a server Firmware Update Package Service Pack.
- **Out-of-band method:** Use the IMM2.1 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 Lenovo service representative.

To download the server firmware update package from the World Wide Web, go to <http://support.lenovo.com/>.

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 (JP16), or in the case of image corruption, this will occur automatically with the Automated Boot Recovery function.

In-band manual recovery method

This section details the in-band manual recovery method.

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 v and “Installation guidelines” on page 28.
2. Turn off the server, and disconnect all power cords and external cables.
3. Unlock and remove the cover (see “Removing the cover” on page 142).
4. Locate the UEFI boot backup jumper on the system board.

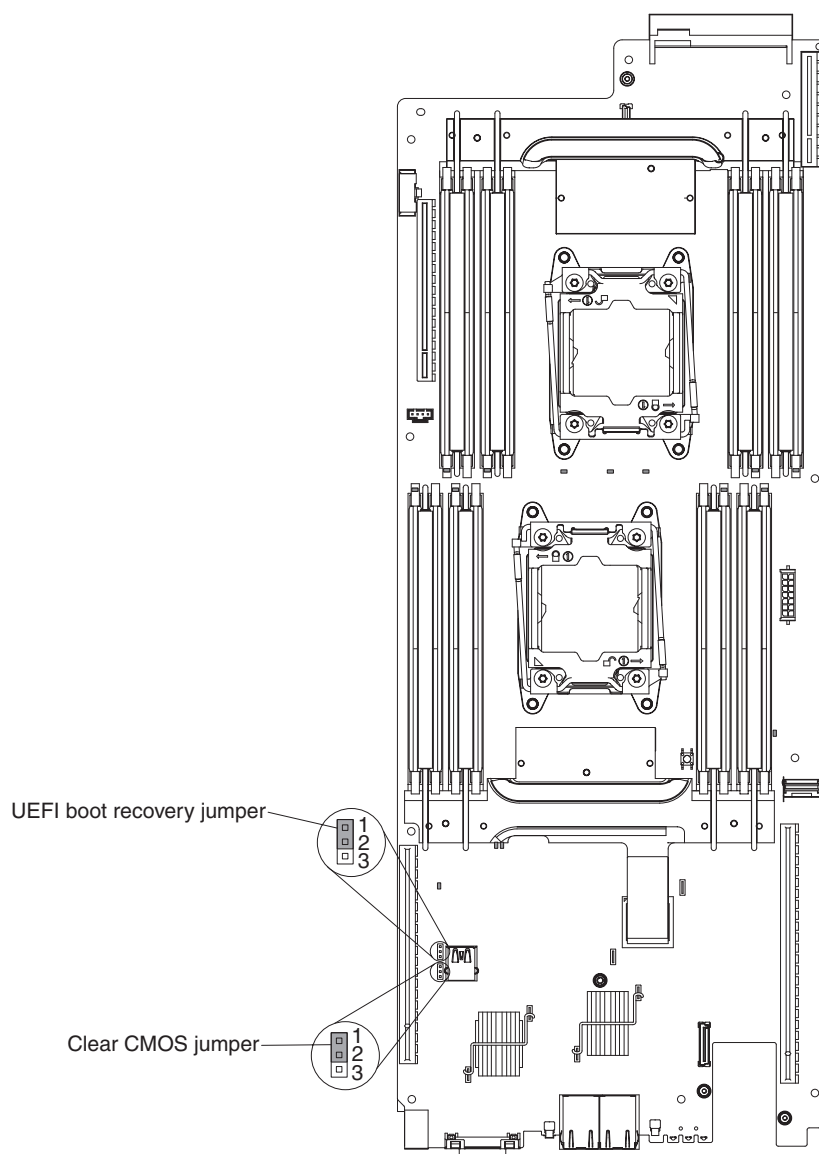


Figure 15. Location of the switches, jumpers, and buttons on the system board

5. Move the UEFI boot backup jumper 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 142).
11. Move the UEFI boot backup jumper from pins 2 and 3 back to the primary position (pins 1 and 2).
12. Reinstall the cover (see “Replacing the cover” on page 143).
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 cover (see “Removing the cover” on page 142).
16. Reset the CMOS by removing the system battery (see “Removing the system battery” on page 151).
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 152).
19. Reinstall the cover (see “Replacing the cover” on page 143).
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 Lenovo service representative for support.

In-band automated boot recovery method

This section details the in-band automated boot recovery method.

About this task

Note: Use this method if the System board LED on the light path diagnostics panel is lit and there is a log entry or Booting Backup Image is displayed on the firmware splash screen; otherwise, use the in-band manual recovery method.

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

See the IMM2.1 documentation (*Integrated Management Module 2.1 User's Guide*) at <http://www.ibm.com/support/entry/portal/docdisplay?lnidocid=migr-5086346>.

Automated boot recovery (ABR)

Use this information for Automated boot recovery (ABR).

About this task

While the server is starting, if the integrated management module II detects problems with the server firmware in the primary bank, the server automatically switches to the backup firmware bank and gives you the opportunity to recover the firmware in the primary bank. For instructions for recovering the UEFI firmware, see “Recovering the server firmware (UEFI update failure)” on page 87. 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

Use this information for Nx-boot failure.

Configuration changes, such as added devices or adapter firmware updates, and firmware or application code problems can cause the server to fail POST (the power-on self-test). If this occurs, the server responds in either of the following ways:

- The server restarts automatically and attempts POST again.
- The server hangs, and you must manually restart the server for the server to attempt POST again.

After a specified number of consecutive attempts (automatic or manual), the Nx-boot failure feature causes the server to revert to the default UEFI configuration and start the Setup utility so that you can make the necessary corrections to the configuration and restart the server. If the server is unable to successfully complete POST with the default configuration, there might be a problem with the system board.

To specify the number of consecutive restart attempts that will trigger the Nx-boot failure feature, in the Setup utility, click **System Settings > Recovery > POST Attempts > POST Attempts Limit**. The available options are 3, 6, 9, and 255 (disable Nx-boot failure).

Chapter 5. Parts listing, Lenovo NeXtScale nx360 M5 water-cooled technology tray Type 5467, Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469

The parts listing of Lenovo NeXtScale nx360 M5 water-cooled technology tray Type 5467, Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469.

The following replaceable components are available for the Lenovo NeXtScale nx360 M5 water-cooled technology tray Type 5467, Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469 server, except as specified otherwise in “Replaceable server components.” For an updated parts listing, go to <http://support.lenovo.com/>.

Replaceable server components

The replaceable server components for Lenovo NeXtScale nx360 M5 water-cooled technology tray Type 5467, Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469.

Replaceable components consist of structural parts, and field replaceable units (FRUs):

- **Structural parts:** Purchase and replacement of structural parts (components, such as chassis assembly, cover, and bezel) is your responsibility. If Lenovo acquires or installs a structural component at your request, you will be charged for the service.
- **Tier 1 customer replaceable unit (CRU):** Replacement of Tier 1 CRUs is your responsibility. If Lenovo installs a Tier 1 CRU at your request, you will be charged for the installation.
- **Tier 2 customer replaceable unit:** You may install a Tier 2 CRU yourself or request Lenovo to install it, at no additional charge, under the type of warranty service that is designated for your server.
- **Field replaceable unit (FRU):** FRUs must be installed only by Trained service technicians.

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 463.

Visit <http://www.ibm.com/systems/info/x86servers/serverproven/compat/us> for the latest options supporting plan.

The following illustration shows the major components in the server. The illustrations in this document might differ slightly from your hardware.

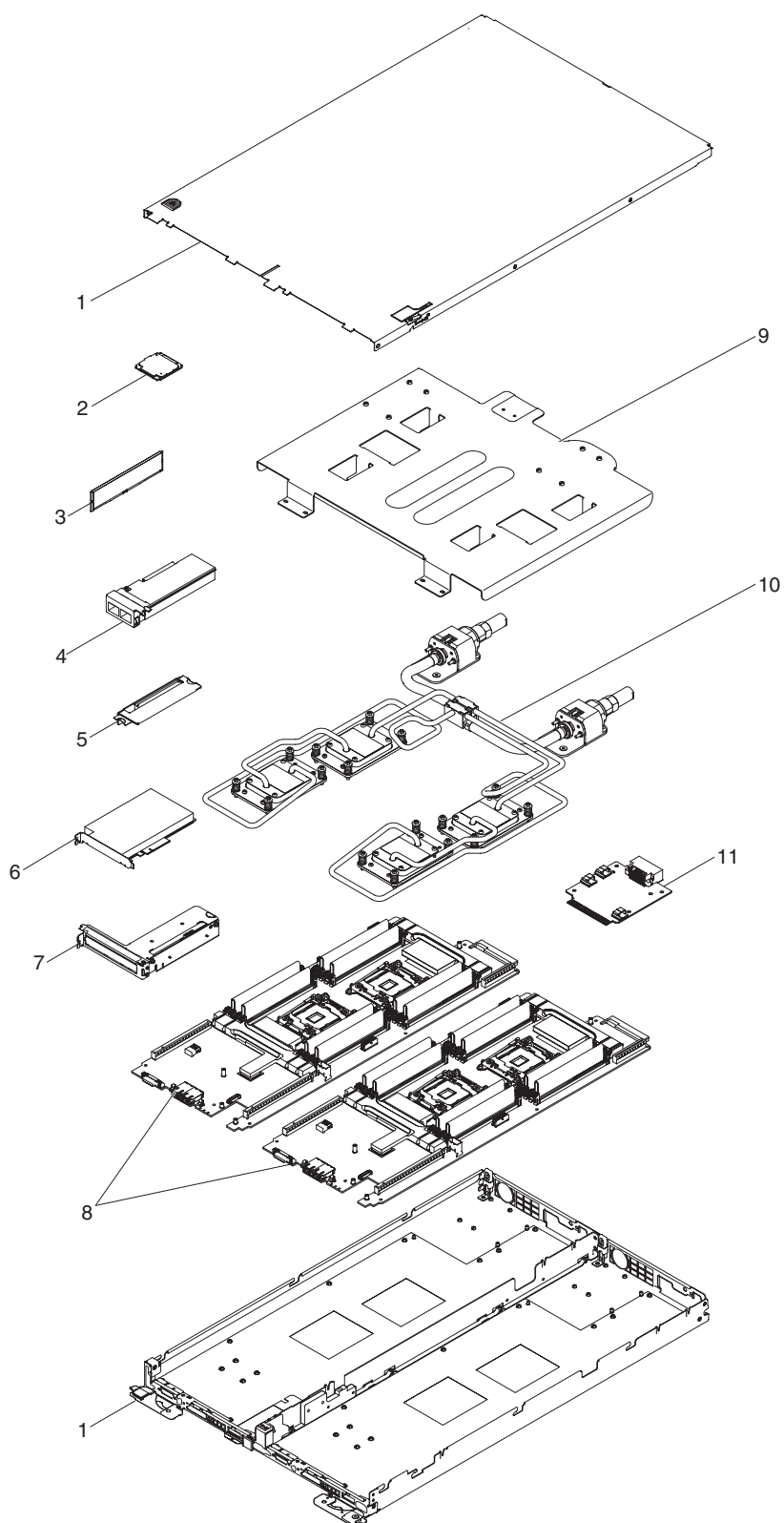


Figure 16. Server components

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

Index	Description	CRU part number (Tier 1)	CRU part number (Tier 2)	FRU part number
1	Full wide tray (including top cover)			00FP312
2	Microprocessor, Intel Xeon E5-2697 v3 2.6 GHz, 35 MB, 2133 MHz, 145 W (14 core)			00AE680
2	Microprocessor, Intel Xeon E5-2695 v3 2.3 GHz, 35 MB, 2133 MHz, 120 W (14 core)			00AE681
2	Microprocessor, Intel Xeon E5-2690 v3 2.6 GHz, 25-30 MB, 2133 MHz, 135 W (12 core)			00AE682
2	Microprocessor, Intel Xeon E5-2680 v3 2.5 GHz, 25-30 MB, 2133 MHz, 120 W (12 core)			00AE683
2	Microprocessor, Intel Xeon E5-2670 v3 2.3 GHz, 25-30 MB, 2133 MHz, 120 W (12 core)			00AE684
2	Microprocessor, Intel Xeon E5-2667 v3 3.2 GHz, 20 MB, 2133 MHz, 135 W (8 core)			00AE694
2	Microprocessor, Intel Xeon E5-2699 v3 2.3 GHz, 45 MB, 2133 MHz, 145 W (18 core)			00KC789
2	Microprocessor, Intel Xeon E5-2698 v3 2.3 GHz, 40 MB, 2133 MHz, 135 W (16 core)			00KG109
2	Microprocessor, Intel Xeon E5-2683 v3 2.0 GHz, 35 MB, 2133 MHz, 120 W (14 core)			00KG110
2	Microprocessor, Intel Xeon E5-2698A v3 2.8 GHz, 40 MB, 2133 MHz, 165 W (16 core)			00KG112
3	Memory, 8 GB dual-rank 1.2 V, DDR4, 2133 MHz, LP RDIMM	46W0794		
3	Memory, 16 GB dual-rank 1.2 V, DDR4, 2133 MHz, LP RDIMM	46W0798		
4	Mellanox ConnectX-3 Pro 40GbE / FDR IB VPI ML2	00FP662		
4	Mellanox ConnectX-4 EDR / 100GbE PCIe	00MW480		
5	ML2 riser cage	00KG518		
6	Mellanox QSFP to SFP+ adapter	00D9678		
6	Mellanox Single-Port Connect-IB PCIe x16 adapter	00KG329		
7	PCIe riser assembly	00KA969		
8	Node system board			00MW502
10	Water loop assembly			00FP301
11	Power distribution board			00MU797
	Cable, 3m QSFP optical FDR14 InfiniBand	00MP569		
	Cable, 5m QSFP Optical FDR14 InfiniBand	00MP570		
	Cable, 10m QSFP Optical FDR14 InfiniBand	00MP571		
	Cable, 15m QSFP Optical FDR14 InfiniBand	00MP572		
	Cable, 20m QSFP Optical FDR14 InfiniBand	00MP573		
	Cable, 30m QSFP Optical FDR14 InfiniBand	00MP574		
	Cable, 0.75m Mellanox passive DAC copper	00KF026		
	Cable, 1m Mellanox passive DAC copper	00KF027		
	Cable, 1.25m Mellanox passive DAC copper	00KF028		

Index	Description	CRU part number (Tier 1)	CRU part number (Tier 2)	FRU part number
	Cable, 1.5m Mellanox passive DAC copper	00KF029		
	Cable, 3m Mellanox passive DAC copper	00KF030		
	Cable, Hybrid 3M Mellanox passive DAC copper	00KF037		
	Cam levers		00KJ825	
	Fillers, IO	00FP318		
	Fillers, interposer card dummy	00KA967		
	Label, water-cooled technology label kit	00KJ812		
	Miscellaneous parts		00FP316	
	ML2 filler bracket	00KA962		
	PCI bracket dummy	00KA966		
	PCI riser bracket	00KG523		
	PCI riser bracket	00Y3172		
	Water loop QC repair kit			00FP302

Type 5468 chassis and type 5469 manifold components

The following replaceable components are available for the Type 5468 chassis and type 5469 manifold components.

The following illustration shows the major components in the Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469. The illustrations in this document might differ slightly from your hardware.

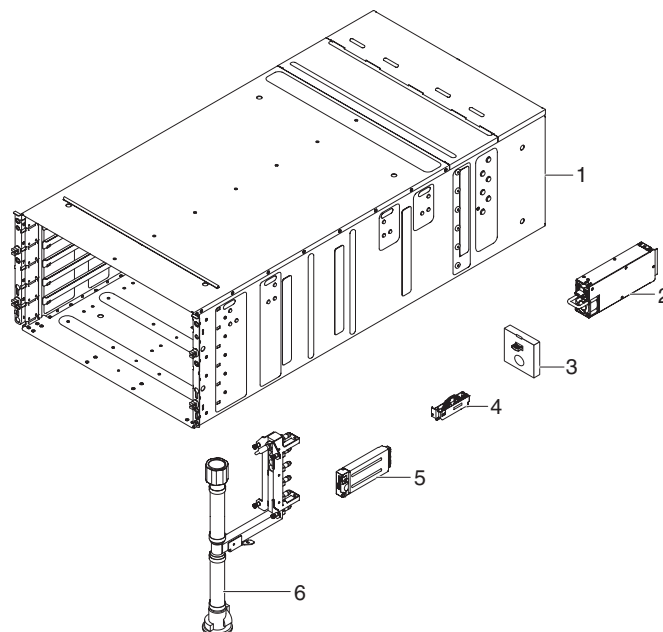


Figure 17. Chassis and manifold components

Table 19. Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469

Index	Description	CRU part number (Tier 1)	CRU part number (Tier 2)	FRU part number
1	6U chassis assembly			00AM294
2	Power supply, 900 watt, ac	94Y8101		
2	Power supply, 1300 watt, ac	94Y8183		
2	Power supply, 1300 watt, ac	69Y5927		
3	Chassis fan module filler	81Y2899		
4	Drip sensor			00KG516
5	Fan power control assembly	00KG634		
6	Manifold, middle, 8U			00KJ804
6	Manifold, middle, 6U			00KJ803
6	Manifold, single drop			00KJ806
6	Manifold, bottom			00KJ805
6	Manifold, top			00FP306
	Chassis EMC kit	00FP315		
	Chassis lift handle	81Y2902		
	Chassis midplane			46W2907
	EIA cover, left	00AM298		
	EIA cover, right	00AM299		
	Filler, water-cooled tray, full wide	00FP319		
	Line cord, 4.3m 32A/380-415V IEC 309 3P+N+G 3ph wye (non-US)	39M5427		
	Rack power cable, 2.0m, 125-250V, C13 to IEC 320-C14 (WW)	39M5508		
	Rack power cable, 1.2m, 16A/100-250V, 2 short C13s to short C20	69Y1626		
	Rack power cable, 2.5m, 16A/100-250V, 2 long C13s to short C20	69Y1627		
	Video and USB breakout cable	81Y2889		

To order a structural part, complete the following steps:

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

1. Go to .
2. From the **Products** menu, select **Upgrades, accessories & parts**.
3. Click **Obtain maintenance parts**; then, follow the instructions to order the part from the retail store.

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

Structural parts

Structural parts are not covered by the Lenovo Statement of Limited Warranty. You can place an order on the structural parts from the Lenovo retail store.

The following structural parts are available for purchase from the retail store.

Table 20. Structural parts, Types 5467, 5468, and 5469

Description	Part number
Rail kit	88Y6721

To order a structural part, complete the following steps:

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

1. Go to <http://www.lenovo.com>.
2. From the **Products** menu, select **Upgrades, accessories & parts**.
3. Click **Obtain maintenance parts**; then, follow the instructions to order the part from the retail store.

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

Power cords

For your safety, a power cord with a grounded attachment plug is provided to use with this product. To avoid electrical shock, always use the power cord and plug with a properly grounded outlet.

Lenovo power cords used in the United States and Canada are listed by Underwriter's Laboratories (UL) and certified by the Canadian Standards Association (CSA).

For units intended to be operated at 115 volts: Use a UL-listed and CSA-certified cord set consisting of a minimum 18 AWG, Type SVT or SJT, three-conductor cord, a maximum of 15 feet in length and a parallel blade, grounding-type attachment plug rated 15 amperes, 125 volts.

For units intended to be operated at 230 volts (U.S. use): Use a UL-listed and CSA-certified cord set consisting of a minimum 18 AWG, Type SVT or SJT, three-conductor cord, a maximum of 15 feet in length and a tandem blade, grounding-type attachment plug rated 15 amperes, 250 volts.

For units intended to be operated at 230 volts (outside the U.S.): Use a cord set with a grounding-type attachment plug. The cord set should have the appropriate safety approvals for the country in which the equipment will be installed.

Power cords for a specific country or region are usually available only in that country or region.

Power cord part number	Used in these countries and regions
39M5206	China

Power cord part number	Used in these countries and regions
39M5102	Australia, Fiji, Kiribati, Nauru, New Zealand, Papua New Guinea
39M5121 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 39M5179	Denmark
39M5144	Bangladesh, Lesotho, Macao, Maldives, Namibia, Nepal, Pakistan, Samoa, South Africa, Sri Lanka, Swaziland, Uganda
39M5151	Abu Dhabi, Bahrain, Botswana, Brunei Darussalam, Channel Islands, China (Hong Kong S.A.R.), Cyprus, Dominica, Gambia, Ghana, Grenada, Iraq, Ireland, Jordan, Kenya, Kuwait, Liberia, Malawi, Malaysia, Malta, Myanmar (Burma), Nigeria, Oman, Polynesia, Qatar, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Seychelles, Sierra Leone, Singapore, Sudan, Tanzania (United Republic of), Trinidad and Tobago, United Arab Emirates (Dubai), United Kingdom, Yemen, Zambia, Zimbabwe
39M5158	Liechtenstein, Switzerland
39M5165	Chile, Italy, Libyan Arab Jamahiriya
39M5172	Israel
39M5094 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
39M5076 39M5080 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
39M5254	Taiwan
39M5087	Thailand
39M5219	Korea (Democratic People's Republic of), Korea (Republic of)
39M5199	Japan
39M5068	Argentina, Paraguay, Uruguay

Power cord part number	Used in these countries and regions
39M5226	India
39M5239 39M5240 39M5247	Brazil
39M5374 39M5375 39M5377 39M5392 39M5509 39M5512	Canada, United States of America

Chapter 6. Removing and replacing server components

Use this information to remove and replace the server components.

The types of replaceable components are:

- **Structural parts:** Purchase and replacement of structural parts (components, such as chassis assembly, cover, and bezel) is your responsibility. If Lenovo acquires or installs a structural component at your request, you will be charged for the service.
- **Tier 1 customer replaceable unit (CRU):** Replacement of Tier 1 CRUs is your responsibility. If Lenovo installs a Tier 1 CRU at your request, you will be charged for the installation.
- **Tier 2 customer replaceable unit (CRU):** You may install a Tier 2 CRU yourself or request Lenovo to install it, at no additional charge, under the type of warranty service that is designated for your server.

See Chapter 5, “Parts listing, Lenovo NeXtScale nx360 M5 water-cooled technology tray Type 5467, Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469,” on page 91 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 463.

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 server components in the server.

Removing the manifold

Use this information to remove the manifold.

Before you begin

Read the safety information in “Safety” on page v and “Installation guidelines” on page 28.

If you are replacing a server component or installing an optional device in the server, you need to slide the server out from the rack enclosure, turn off the server and peripheral devices, and disconnect the power cords and all external cables.

About this task

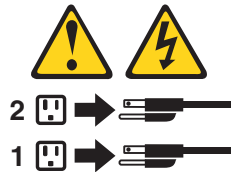
Attention: You must remove the power from the rack cabinet and all components before you connect or disconnect the water supply lines and drain or fill the manifold.

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.



DWC Safety Information, Statement 14



CAUTION:

The water might cause irritation to the skin and eyes. Avoid direct contact with the lubricant.

(C034)

L011



تحذير: يجب ارتداء النظارات الواقية لهذا الاجراء. (L011)

AVISO: Para este procedimento, são necessários óculos de proteção. (L011)

ВНИМАНИЕ: За тази процедура са необходими предпазни очила. (L011)

ATTENTION : Cette procédure requiert des lunettes de protection. (L011)

警告: 该过程需要护目镜。 (L011)

警告: 此程序需要護目鏡。 (L011)

OPREZ: Za izvođenje postupka su potrebne zaštitne naočale. (L011)

POZOR: K tomuto postupu jsou nutné ochranné brýle. (L011)

Pas på! Proceduren kræver beskyttelsesbriller. (L011)

WAARSCHUWING: Voor deze procedure is een beschermende bril vereist. (L011)

CAUTION: Protective eyewear is needed for the procedure. (L011)

VAROITUS: Toimet edellyttävät silmänsuojaimien käyttöä. (L011)

Vorsicht: Bei dieser Prozedur eine Schutzbrille tragen. (L011)

ΠΡΟΣΟΧΗ: Για τη συγκεκριμένη διαδικασία απαιτούνται προστατευτικά γυαλιά. (L011)

VESZÉLY: Az eljáráshoz védőszemüveget kell viselni. (L011)

ATTENZIONE: per la procedura sono necessarie protezioni per gli occhi. (L011)

危険: この作業には目を保護する道具が必要です。
(L011)

주의: 이 절차에는 보호용 안경이 필요합니다. (L011)

ВНИМАНИЕ: За изведвање на постапката потребни се заштитни очила. (L011)

تنبه :
تستخدم
نظارات
حماية
العين
(L011)

ADVARSEL: Vernebriller må benyttes for denne prosedyren. (L011)

ZAGROŻENIE: Procedura wymaga zastosowania okularów ochronnych. (L011)

CUIDADO: É necessário utilizar protecção ocular para a execução deste procedimento. (L011)

ОСТОРОЖНО: При выполнении этой операции необходимо надеть защитные очки. (L011)

VÝSTRAHA: Vykonanie tejto procedúry vyžaduje pomôcku na ochranu očí. (L011)

POZOR: Za ta postopek je potrebna zaščitna oprema za oči. (L011)

PRECAUCIÓN: Utilice protección ocular para llevar a cabo el procedimiento. (L011)

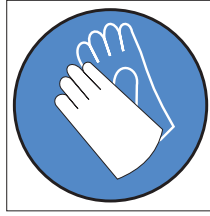
Varning: Skyddsglasögon krävs. (L011)

ཉེན་བརྒྱུད་: བཞོལ་སྒྱུད་འདིའི་གོ་རིམ་ལ་སླང་སྒྱུབ་བྱས་པ་ལྷན་པའི་མིག་ཤེལ་གོན་དགོས། (L011)

ئاگاھلاندۇرۇش: سز مەشغۇلات جەريانىدا كۆز ئاسراش كۆزەينىكى تاقىۋېلىشىڭىز كېرەك. (L011)

Daezsingj: Aen cauhcoz neix aeu yungh yenjging baujhoh lwgda. (L011)

L014



تحذير: يجب ارتداء القفازات الكيميائية المقاومة لهذا الاجراء. (L014)

AVISO: Para este procedimento, são necessárias luvas com resistência química. (L014)

ВНИМАНИЕ: За тази процедура са необходими химически устойчиви ръкавици. (L014)

ATTENTION : Cette procédure requiert des gants de protection contre les produits chimiques. (L014)

警告: 该过程需要化学防护手套。 (L014)

警告: 此程序需要抗化學劑手套。 (L014)

OPREZ: Za ovaj postupak su potrebne kemijski otporne zaštitne rukavice. (L014)

POZOR: K tomuto postupu jsou nutné ochranné brýle. (L014)

Pas på! Bær handsker, der er modstandsdygtige over for kemikalier, når du skal udføre denne proces. (L014)

WAARSCHUWING: Voor deze procedure zijn tegen chemicaliën beschermende handschoenen vereist. (L014)

CAUTION: Chemical resistant gloves are needed for this procedure. (L014)

VAROITUS: Toimet edellyttävät kemiallisesti kestävästä materiaaleista valmistettujen suojakäsineiden käyttöä. (L014)

Vorsicht: Bei dieser Aktion müssen chemische Schutzhandschuhe getragen werden. (L014)

ΠΡΟΣΟΧΗ: Για τη συγκεκριμένη διαδικασία απαιτούνται ειδικά γάντια, ανθεκτικά στις χημικές ουσίες. (L014)

VIGYÁZAT: Az eljáráshoz vegyi anyagokkal szemben ellenálló védőszemüveget kell viselni. (L014)

ATTENZIONE: per questa procedura sono necessari guanti resistenti ad agenti chimici. (L014)

危険: この作業には化学耐性のあるグローブが必要です。 (L014)

주의: 이 절차를 수행하려면 내화학성 장갑을 착용해야 합니다. (L014)

ВНИМАНИЕ: За изведывање на оваа постапка потребни се ракавици за хемиска заштита. (L014)

تذكرة: يجب ارتداء قفازات كيميائية عند إجراء هذه العملية. (L014)

ADVARSEL: Vernehansker av motstandsdyktig materiale må benyttes for denne prosedyren. (L014)

ZAGROŻENIE: Procedura wymaga użycia rękawic ochronnych. (L014)

CUIDADO: É necessária a utilização de luvas resistentes a químicos para a execução deste procedimento. (L014)

ОСТОРОЖНО: Для этой процедуры необходимы перчатки, устойчивые к химическим воздействиям. (L014)

VÝSTRAHA: Vykonanie tejto procedúry vyžaduje rukavice odolné chemikáliám. (L014)

POZOR: Za delo so potrebne proti kemičnim sredstvom odporne rokavice. (L014)

PRECAUCIÓN: Utilice guantes resistentes a los productos químicos para llevar a cabo el procedimiento. (L014)

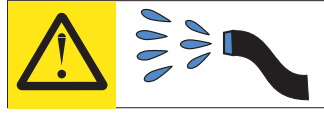
Varning: Kemikalietåliga handskar behövs. (L014)

ཉེན་ཁུ། : བཞོལ་སྦྱང་འདིའི་གོ་རིམ་ལ་སྦྱང་སྦྱོབ་རུས་པ་ལྟན་པའི་རྩིས་འགྱུར་རུ་ལ་འགོག་ལག་ཤུབས་གོན་དགོས། (L014)

ئاگاھلاندۇرۇش: بۇ مەشغۇلات جەريانىدا خىمىيىلىك چىرىشتىن ساقلىنىش پەللىمىنى كىيىۋېلىشىڭىز كېرەك. (L014)

Daezsingj: Aen cauhcoz neix aeu yungh madfwngz naih vayoz myaex. (L014)

L016



خطر: قد يتم التعرض لخطر الصدمة الكهربائية بسبب الماء أو المحلول المائي الذي يوجد بهذا المنتج.
تجنب العمل في أو بالقرب من أي جهاز فعال بأيدي مبتلة أو عند وجود تسرب للماء. (L016)

AVISO: Risco de choque elétrico devido à presença de água ou solução aquosa no produto. Evite trabalhar no equipamento ligado ou próximo a ele com as mãos molhadas ou quando houver a presença de água derramada. (L016)

ОПАСНО: Риск от токов удар поради вода или воден разтвор, присъстващи в продукта. Избягвайте работа по или около оборудване под напрежение, докато сте с мокри ръце или когато наоколо има разляна вода. (L016)

DANGER : Risque de choc électrique lié à la présence d'eau ou d'une solution aqueuse dans ce produit. Évitez de travailler avec ou à proximité d'un équipement sous tension avec des mains mouillées ou lorsque de l'eau est renversée. (L016)

危险: 由于本产品中存在水或者水溶液, 因此存在电击风险。请避免使用潮湿的手在带电设备或者有水溅出的环境附近工作。 (L016)

危險: 本產品中有水或水溶液, 會造成電擊的危險。手濕或有潑濺的水花時, 請避免使用或靠近帶電的設備。 (L016)

OPASNOST: Rizik od električnog udara zbog vode ili tekućine koja postoji u ovom proizvodu. Izbjegavajte rad u blizini opreme pod naponom s mokrim rukama ili kad je u blizini prolivena tekućina. (L016)

NEBEZPEČÍ: Riziko úrazu elektrickým proudem v důsledku vody nebo vodního roztoku přítomného v tomto produktu. Dejte pozor, abyste při práci s aktivovaným vybavením nebo v jeho blízkosti neměli mokré ruce a vyvarujte se potřísnění nebo polití produktu vodou. (L016)

Fare! Risiko for stød på grund af vand eller en vandig opløsning i produktet. Undgå at arbejde med eller i nærheden af strømførende udstyr med våde hænder, eller hvis der er spildt vand. (L016)

GEVAAR: Risico op elektrische schok door water of waterachtige oplossing die aanwezig is in dit product. Vermijd werken aan of naast apparatuur die onder spanning staat als u natte handen hebt of als gemorst water aanwezig is. (L016)

DANGER: Risk of electric shock due to water or a water solution which is present in this product. Avoid working on or near energized equipment with wet hands or when spilled water is present. (L016)

Gefahr: Aufgrund von Wasser oder wässriger Lösung in diesem Produkt besteht die Gefahr eines elektrischen Schlags. Nicht mit nassen Händen oder in der Nähe von Wasserlachen an oder in unmittelbarer Nähe von Bauteilen arbeiten, die unter Strom stehen. (L016)

ΚΙΝΔΥΝΟΣ: Κίνδυνος ηλεκτροπληξίας εξαιτίας της παρουσίας νερού ή υγρού διαλύματος στο εσωτερικό του προϊόντος. Αποφύγετε την εργασία με ενεργό εξοπλισμό ή κοντά σε ενεργό εξοπλισμό με βρεγμένα γέρια ή όταν υπάρχει διαρροή νερού. (L016)

VESZÉLY: A víz vagy a termékben lévő vizes alapú hűtőfolyadék miatt fennáll az elektromos áramütés veszélye. Ne dolgozzon áram alatt lévő berendezésen és közelében nedves kézzel, illetve amikor folyadék kerül a berendezésre.

PERICOLO: rischio di scossa elettrica a causa di presenza nel prodotto di acqua o soluzione acquosa. Evitare di lavorare su o vicino l'apparecchiatura accesa con le mani bagnate o in presenza di acqua. (L016)

危険：この製品内に存在する水または水溶液によって、電気ショックの危険があります。手が濡れている場合やこぼれた水が周囲にある場合は、電圧が印加された装置またはその周辺での作業は行わないでください。(L016)

위험: 이 제품에는 물 또는 수용액으로 인한 전기 쇼크 위험이 있습니다. 젖은 손으로 또는 얹질러진 물이 있는 상태에서 전력이 공급되는 장비나 그 주변에서 작업하지 마십시오. (L016)

ОПАСНОСТ: Опасност од струен удар поради присаство на вода или на воден раствор во овој производ. Избегнувајте работење на опрема вклучена во струја или во близина на опрема вклучена во струја со влажни раце или кога има истурено вода.
(L016)

[illegible]

FARE: Fare for elektrisk støt på grunn av vann eller en vandig oppløsning som finnes i dette produktet. Unngå å arbeide med eller i nærheten av strømførende utstyr med våte hender eller ved eventuelt vannsøl. (L016)

NIEBEZPIECZEŃSTWO: Ryzyko porażenia prądem elektrycznym z powodu występowania w produkcie wody lub roztworu wodnego. Nie należy pracować przy podłączonym do źródła zasilania urządzeniu lub w jego pobliżu z mokrymi dłońmi lub kiedy rozlano wodę.
(L016)

PERIGO: Risco de choque eléctrico devido à presença de água ou líquidos no produto. Evite trabalhar com equipamento com energia, ou na sua proximidade, com mãos molhadas ou caso exista água derramada. (L016)

ОПАСНО: Риск поражения электрическим током вследствие присутствия в этом продукте воды или водного раствора. Избегайте выполнения работ на оборудовании, находящемся под напряжением, или рядом с таким оборудованием влажными руками или при наличии пролитой воды. (L016)

NEBEZPEČENSTVO: Riziko úrazu elektrickým proudem v důsledku přítomnosti vody alebo vodného roztoku v tomto produkte. Vyhnite sa práci na zapnutom zariadení alebo v jeho blízkosti s vlhkými rukami, alebo keď je prítomná rozliata voda. (L016)

NEVARNOST: Nevarnost električnega udara zaradi vode ali vodne raztopine, prisotne v izdelku. Ne delajte na opremi ali poleg opreme pod energijo z mokrimi rokami ali ko je prisotna razlita voda. (L016)

PELIGRO: Existe riesgo de choque eléctrico por agua o por una solución de agua que haya en este producto. Evite trabajar en equipos bajo tensión o cerca de los mismos con las manos húmedas o si hay agua derramada. (L016)

Fara: Risk för elektriska stötar på grund av vatten eller vattenbaserat medel i denna produkt. Arbeta inte med eller i närheten av elektriskt laddad utrustning om du har våta händer eller vid vattenspill. (L016)

ཉེན་བརྒྱུ: རྩོམ་ཆས་འདིའི་ནང་དུ་ཆུ་འཕ་ཆུའི་གཞིར་གཟུགས་འདུས་ཡོད་པས། དེ་ལས་སློག་ཆུག་པའི་ཉེན་ཁ་ཡོད། ལག་པའི་ཐོག་ཆུ་ཡོད་པའམ་ཆུ་ཐིག་མར་བཞུར་བའི་གནས་ཚུལ་འོག་སློག་ཆས་ལ་བཞོལ་སྤྱད་བྱེད་མི་ཉེན་པོ། (L016)

خەتەرلىك: بۇ مەھسۇلاتتا سۇ ياكى ئېرىتمە بولغاچقا، شۇڭا توك سوقۇۋېتىش خەۋپى مەۋجۇتدۇر. قول ھۆل ھالەتتە ۋە ياكى سۇ سىرغىپ چىققان ھالەتتە، توكلۇق ئۇسكۇنىگە قارىتا ۋە ياكى توكلۇق ئۇسكۇنىنىڭ ئىتراپىدا مەشغۇلات ئېلىپ بارغىلى بولمايدۇ. (L016)

Yungyiemi: Youzyiz aen canjbinj miz raemx roxnaeuz raemx yungzyiz, sojyij miz yungyiemi bungqden. Mboujndaej fwngz miz raemx seiz youq ndaw sezbi roxnaeuz youq henzgyawj guhhong. (L016)

Attention: Ensure proper handling procedures are followed when working with any chemically treated water used in the compute rack cooling system. Ensure that material safety data sheets (MSDS) and safety information are provided by the water chemical treatment supplier and that proper personal protective equipment (PPE) is available as recommended by the water chemical treatment supplier. Protective gloves and eyewear may be recommended as a precaution.

To remove the manifold, complete the following steps.

Procedure

1. Slide all water-cooled technology trays in the entire rack out of the chassis about 4-inch or 100 mm (see “Removing a water-cooled technology tray from a chassis” on page 139).
2. At the front of the rack, close both Eaton ball valves.

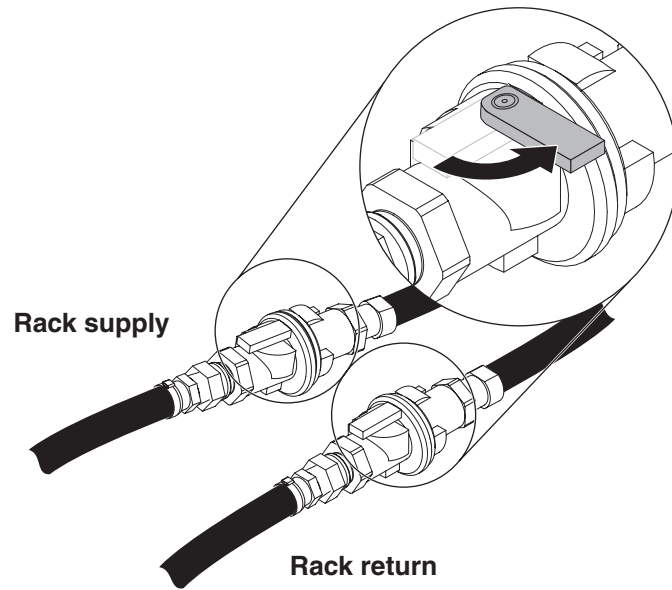


Figure 18. Eaton ball valves closed

3. Remove EMC shields on both sides of the top chassis.

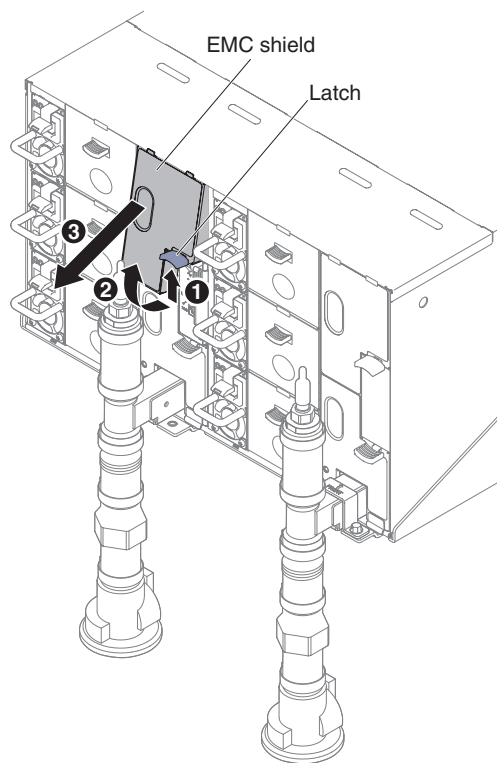


Figure 19. EMC shields removal

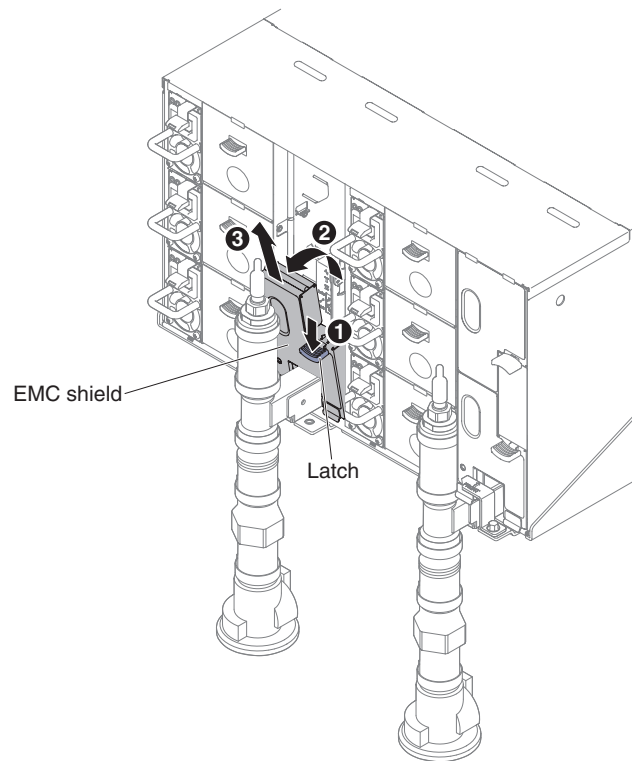


Figure 20. EMC shields removal

4. Remove the red quick connect plug covers from the tops of each manifold.

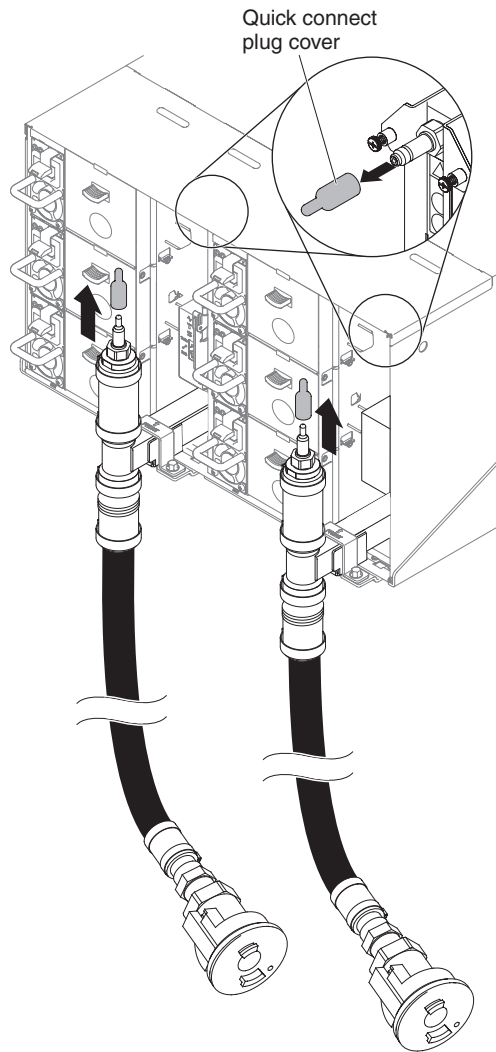


Figure 21. Quick connect plug covers removal

5. Place the open blue hose end of the drain hose (tool left at customer site) into a bucket. Make sure that the lever on the drain hose valve is closed (lever is pointed away from the hose).

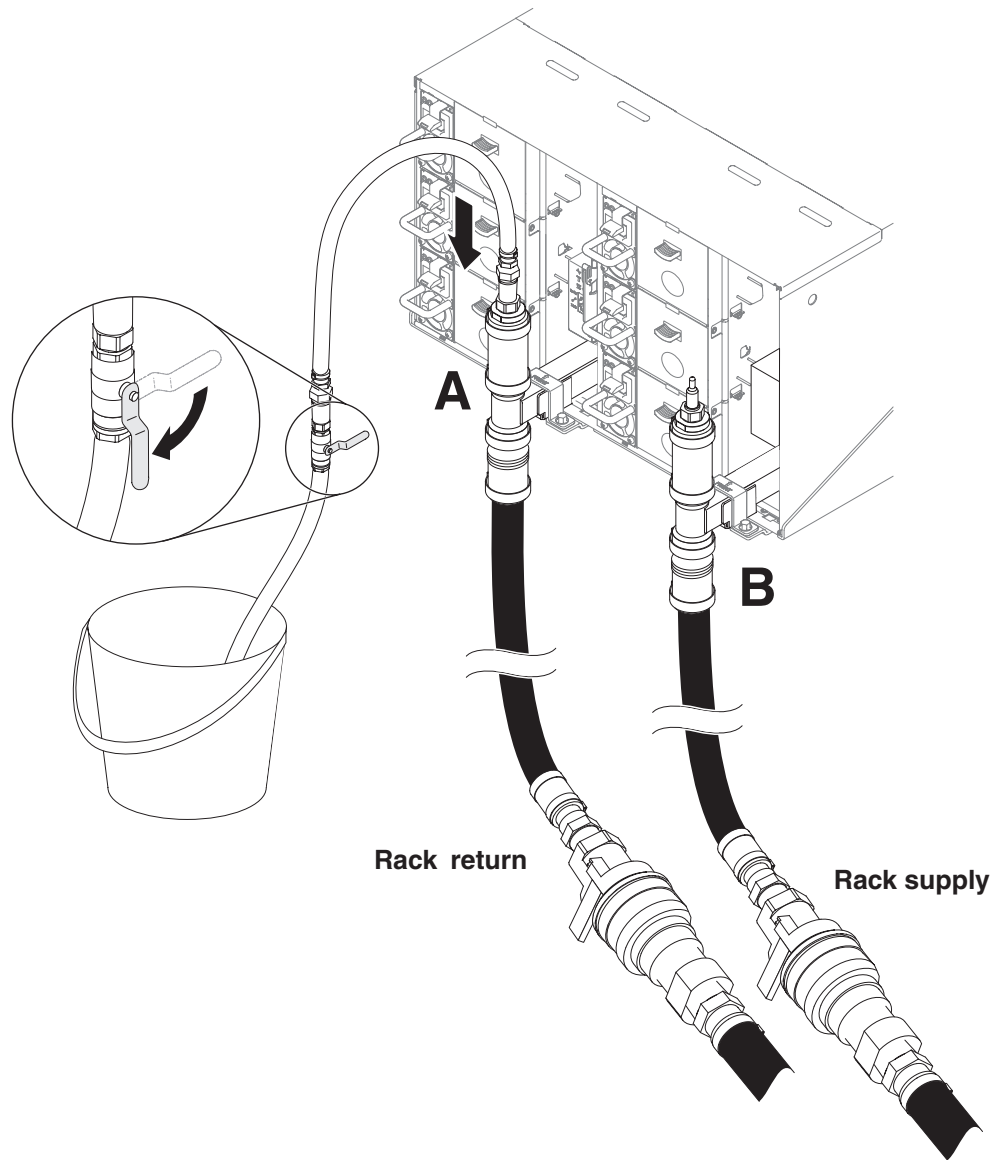


Figure 22. Water draining

6. Connect the Quick connect socket from the drain hose tool to the top of the return side manifold (position middle of the rack).

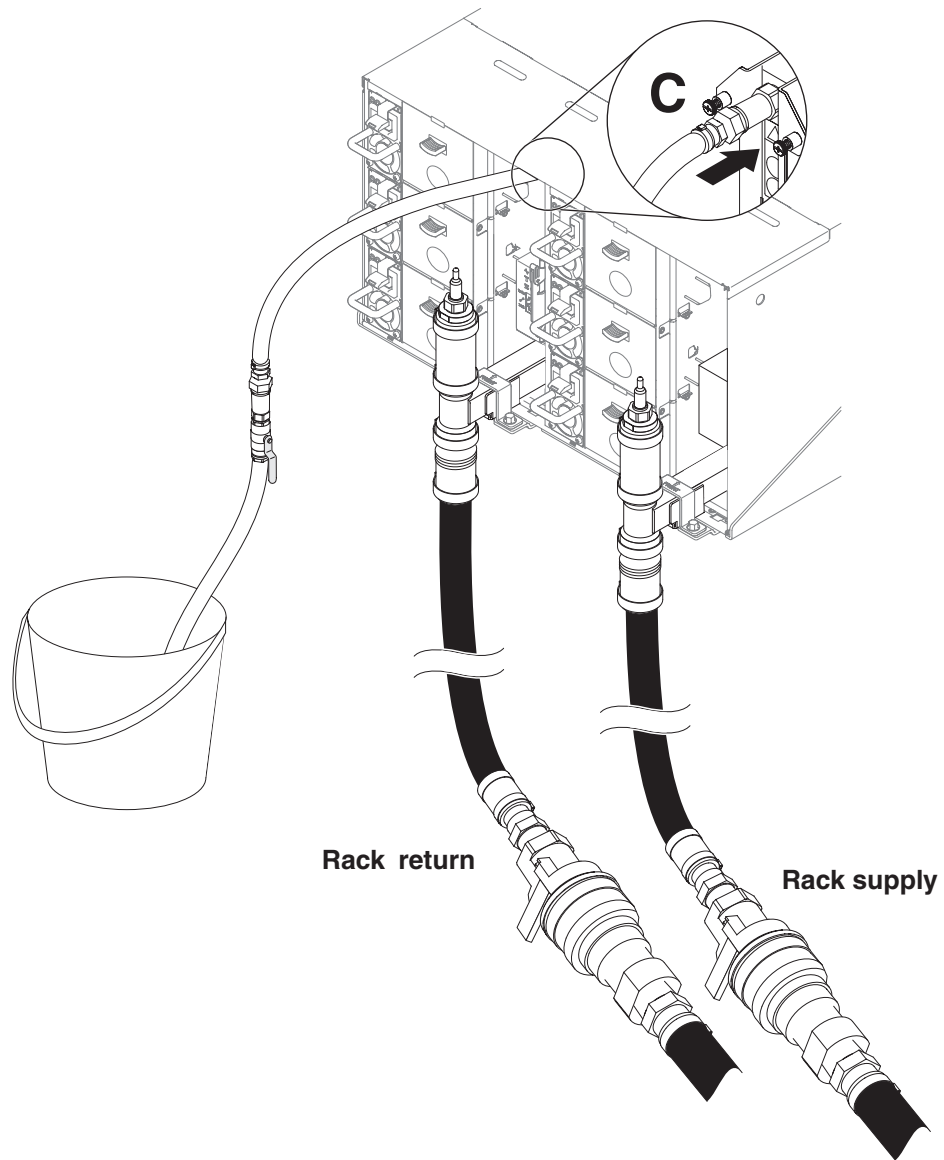


Figure 23. Quick connect socket from the drain hose tool to the top of the return side manifold connection

7. Once the quick connect is attached, slowly open the hose valve and allow water to drain until water stops flowing (approximately 1 minute).

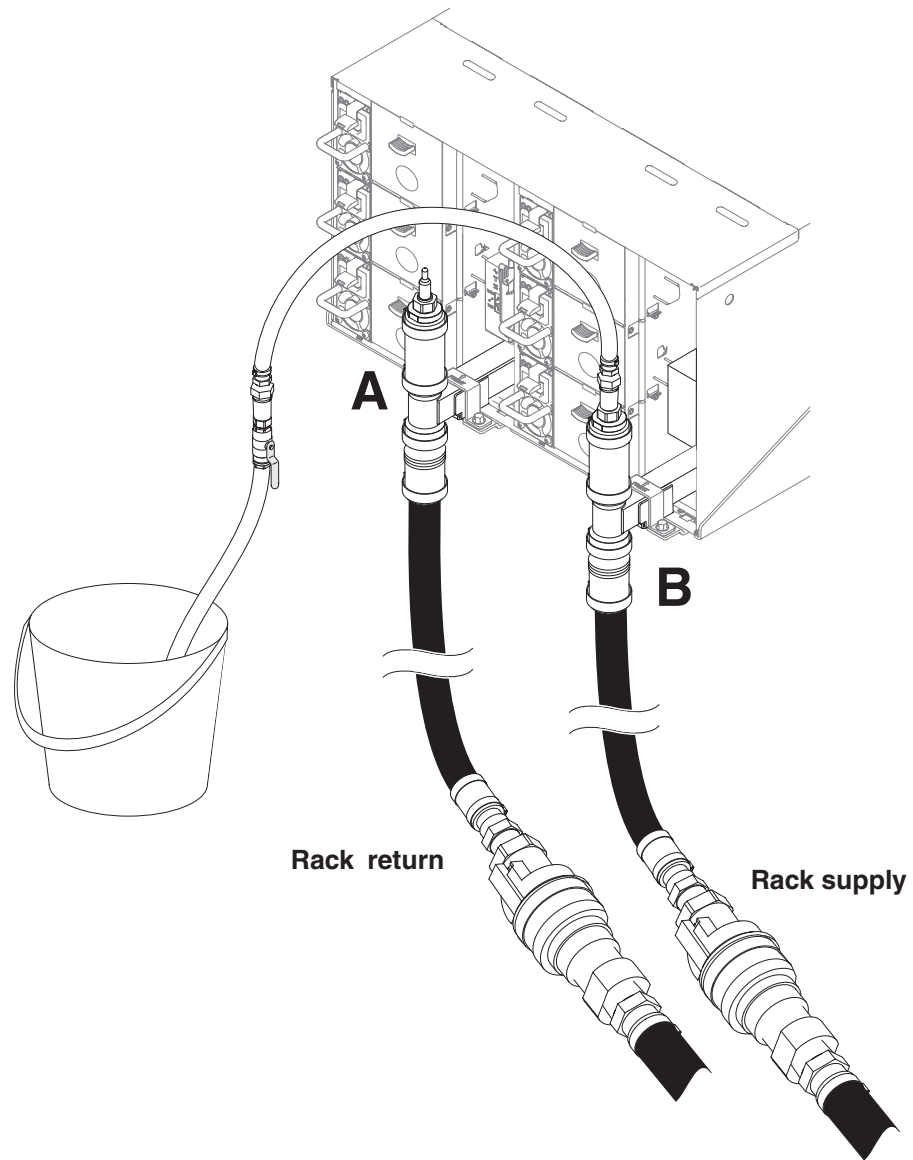


Figure 24. Water draining

8. Move to the top position of the other manifold (position closest to the rack side wall). Leave the hose connected to the top of the manifold until water stops flowing. Disconnect quick connect from top of manifold.

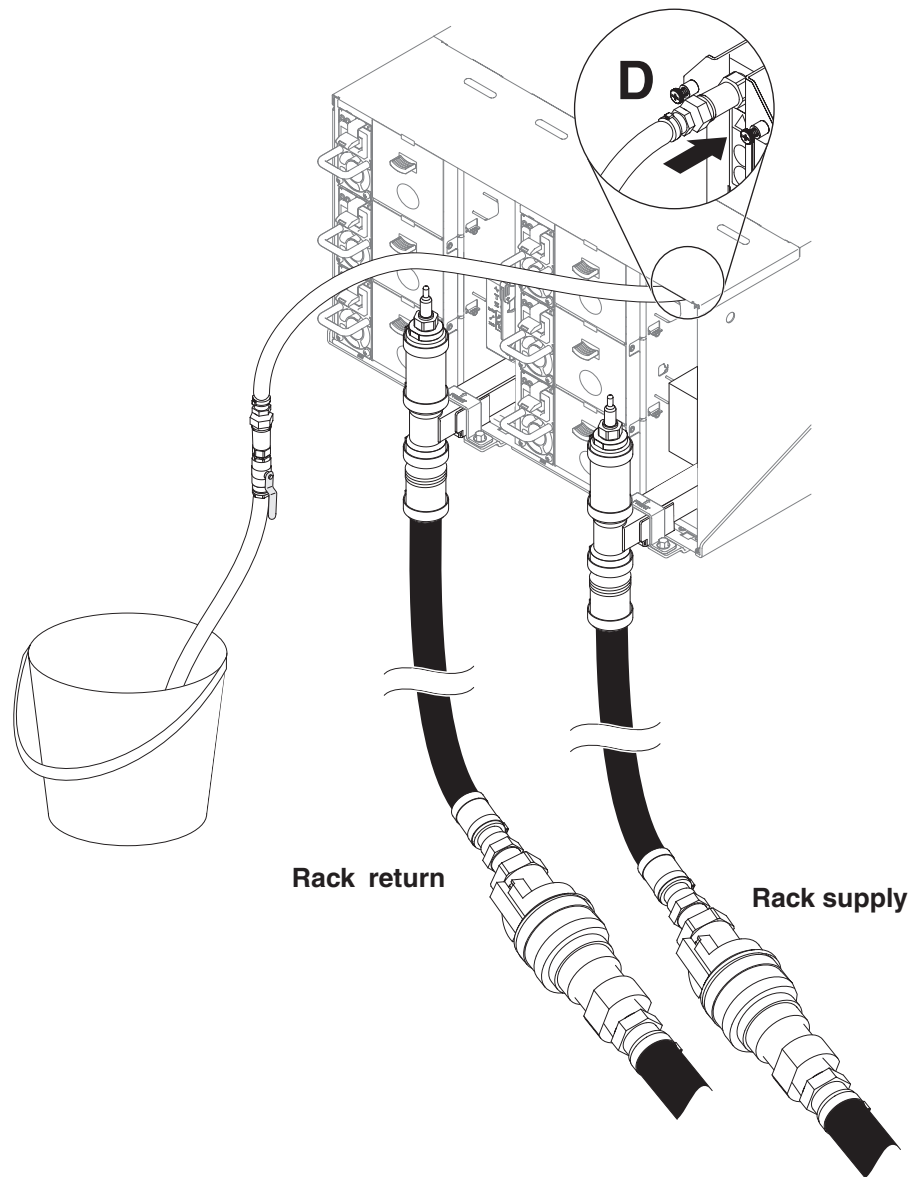


Figure 25. Quick connect socket from the drain hose tool to the top of the supply side manifold connection

9. Continue to each chassis from the top chassis to the bottom chassis by reaching into each chassis Location C and Location D quick connects and allow for a steady stream of water to drain. Repeat drain process until all positions in the entire rack have been drained.
10. Re-attach the hose which should be put onto the manifold that has the section to be replaced to the top of the manifold before moving back around to the front of the rack.
11. At this point, the manifold should be properly drained to allow for service. Since there still can be some water left in the manifold, prepare work area with absorbent cloths to collect any water that may drain out.
12. Determine which manifold needs to be replaced.
13. Move to the rear of the rack. Remove manifold retention bracket that is retaining the manifold (top chassis position only).

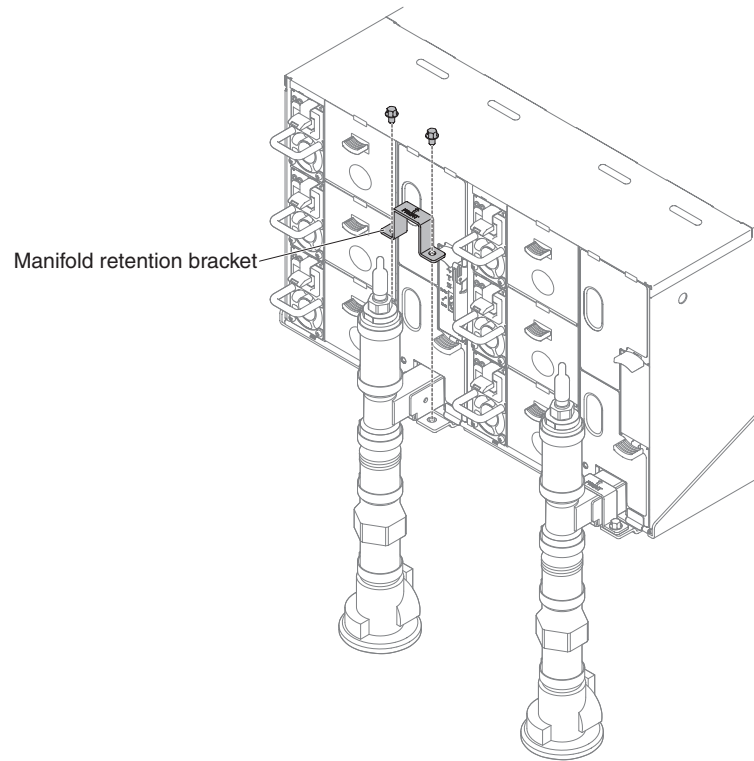


Figure 26. Retention bracket removal

14. Remove drip sensor assembly. Lift latch upwards.

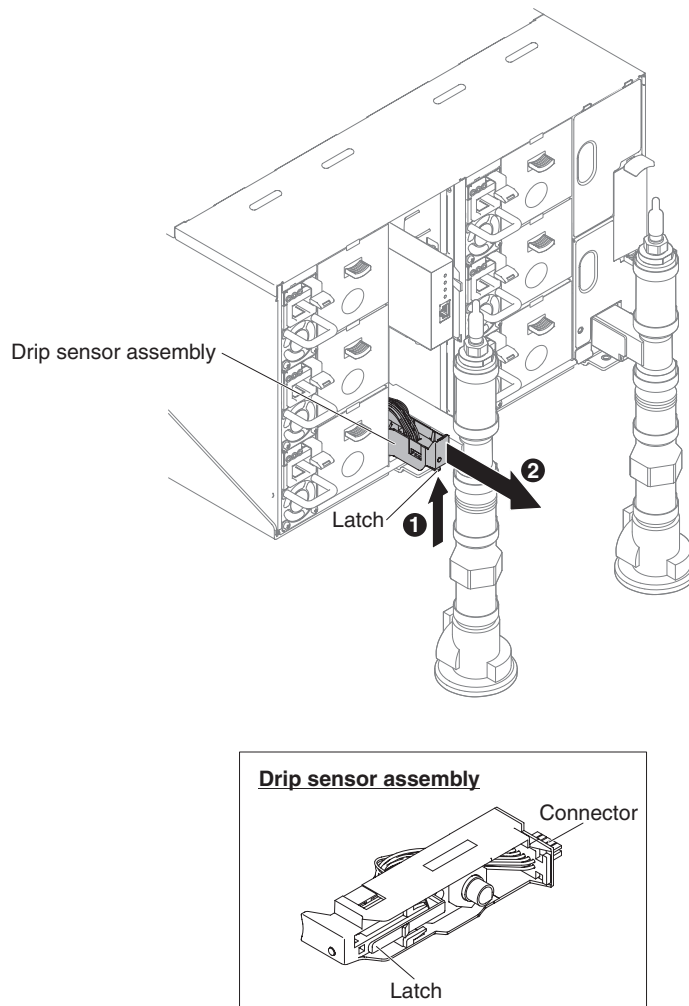


Figure 27. Drip sensor assembly removal

15. Remove FPC card module and FPC card module support bracket if portion of left manifold is being replaced. If it is the right side manifold, remove blank filler.

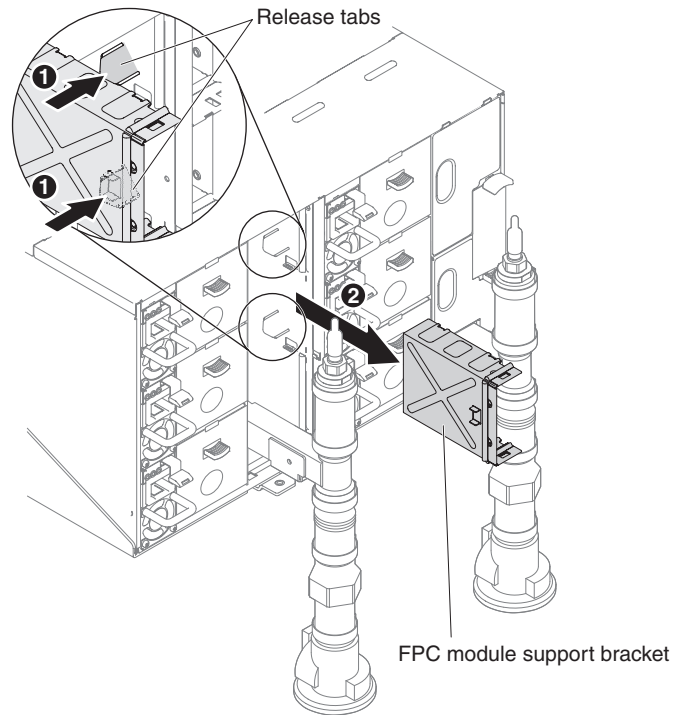


Figure 28. FPC card module removal

16. Unscrew 4 screws (using the screwdriver contained in the manifold repair kit) to loosen the manifold bracket from the chassis.

Back view of chassis

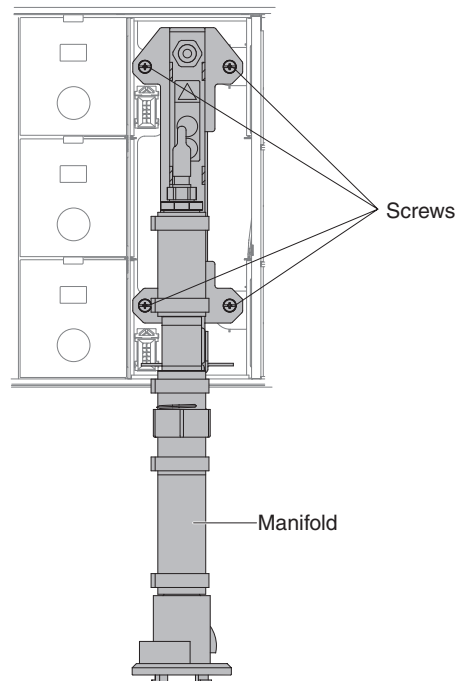


Figure 29. Manifold screw locations

17. Repeat steps 13-16 for all manifold sections until you can freely access the entire manifold to be replaced.

18. It is recommended to remove the entire manifold and lay it on the ground for the next steps.
19. Place a pan under the section of the manifold to be removed.

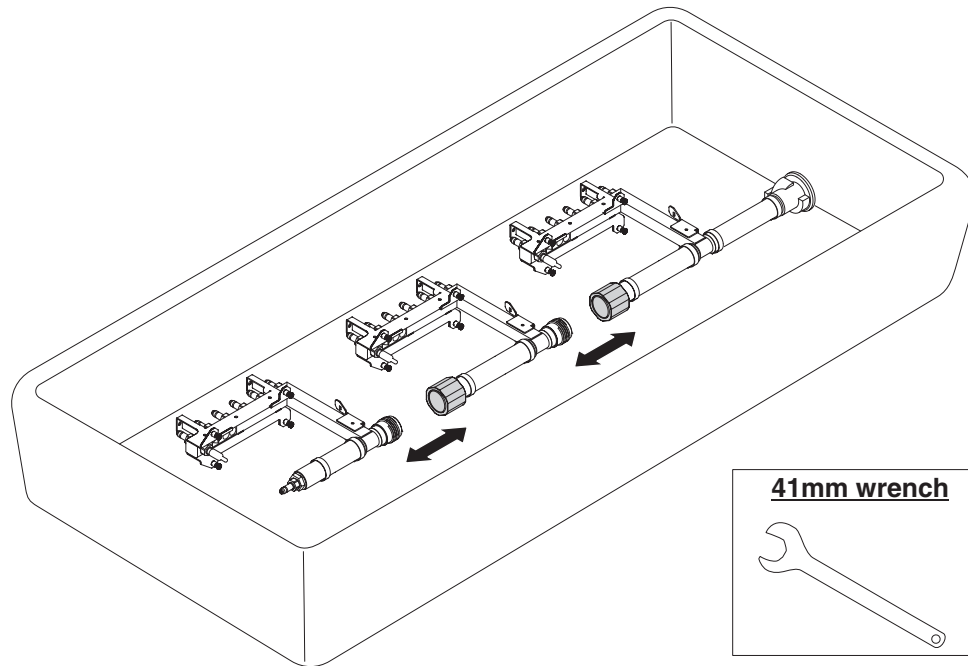


Figure 30. Manifold disassemble

20. Disconnect manifold section to be replaced from the rest of the manifold by disconnecting the couplings. Use 41mm wrench supplied with replacement manifold section kit.

Replacing the manifold

Use this information to replace the manifold.

Before you begin

Important: Make sure the water-cooled technology tray(s) are removed from the chassis (see "Removing a water-cooled technology tray from a chassis" on page 139).

About this task

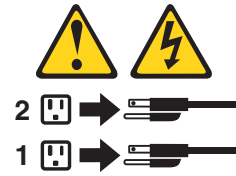
Attention: You must remove the power from the rack cabinet and all components before you connect or disconnect the water supply lines and drain or fill the manifold.

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.



DWC Safety Information, Statement 14



CAUTION:

The water might cause irritation to the skin and eyes. Avoid direct contact with the lubricant.

(C034)

L011



تحذير: يجب ارتداء النظارات الواقية لهذا الاجراء. (L011)

AVISO: Para este procedimento, são necessários óculos de proteção. (L011)

ВНИМАНИЕ: За тази процедура са необходими предпазни очила. (L011)

ATTENTION : Cette procédure requiert des lunettes de protection. (L011)

警告: 该过程需要护目镜。 (L011)

警告 : 此程序需要護目鏡。 (L011)

OPREZ: Za izvođenje postupka su potrebne zaštitne naočale. (L011)

POZOR: K tomuto postupu jsou nutné ochranné brýle. (L011)

Pas på! Proceduren kræver beskyttelsesbriller. (L011)

WAARSCHUWING: Voor deze procedure is een beschermende bril vereist. (L011)

CAUTION: Protective eyewear is needed for the procedure. (L011)

VAROITUS: Toimet edellyttävät silmänsuojaimien käyttöä. (L011)

Vorsicht: Bei dieser Prozedur eine Schutzbrille tragen. (L011)

ΠΡΟΣΟΧΗ: Για τη συγκεκριμένη διαδικασία απαιτούνται προστατευτικά γυαλιά. (L011)

VESZÉLY: Az eljáráshoz védőszemüveget kell viselni. (L011)

ATTENZIONE: per la procedura sono necessarie protezioni per gli occhi. (L011)

危険: この作業には目を保護する道具が必要です。
(L011)

주의: 이 절차에는 보호용 안경이 필요합니다. (L011)

(L011)
 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 83

ZAGROŻENIE: Procedura wymaga zastosowania okularów ochronnych. (L011)

ОСТОРОЖНО: При выполнении этой операции необходимо надеть защитные очки. (L011)

POZOR: Za ta postopek je potrebna zaščitna oprema za oči. (L011)

Varning: Skyddsglasögon krävs. (L011)

ئاگاھلاندۇرۇش: سىز مەشغۇلات جەريانىدا كۆز ئاسراش كۆزەينىڭىزنى تاقىۋېلىشىڭىز كېرەك. (L011)

Chapter 6. Removing and replacing server components **121**

L014



تحذير: يجب ارتداء القفازات الكيميائية المقاومة لهذا الاجراء. (L014)

AVISO: Para este procedimento, são necessárias luvas com resistência química. (L014)

ВНИМАНИЕ: За тази процедура са необходими химически устойчиви ръкавици. (L014)

ATTENTION : Cette procédure requiert des gants de protection contre les produits chimiques. (L014)

警告: 该过程需要化学防护手套。 (L014)

警告: 此程序需要抗化學劑手套。 (L014)

OPREZ: Za ovaj postupak su potrebne kemijski otporne zaštitne rukavice. (L014)

POZOR: K tomuto postupu jsou nutné ochranné brýle. (L014)

Pas på! Bær handsker, der er modstandsdygtige over for kemikalier, når du skal udføre denne proces. (L014)

WAARSCHUWING: Voor deze procedure zijn tegen chemicaliën beschermende handschoenen vereist. (L014)

CAUTION: Chemical resistant gloves are needed for this procedure. (L014)

VAROITUS: Toimet edellyttävät kemiallisesti kestävästä materiaaleista valmistettujen suojakäsineiden käyttöä. (L014)

Vorsicht: Bei dieser Aktion müssen chemische Schutzhandschuhe getragen werden. (L014)

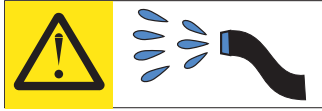
ΠΡΟΣΟΧΗ: Για τη συγκεκριμένη διαδικασία απαιτούνται ειδικά γάντια, ανθεκτικά στις χημικές ουσίες. (L014)

VIGYÁZAT: Az eljáráshoz vegyi anyagokkal szemben ellenálló védőszemüveget kell viselni. (L014)

ATTENZIONE: per questa procedura sono necessari guanti resistenti ad agenti chimici. (L014)

危険: この作業には化学耐性のあるグローブが必要です。 (L014)

L016



خطر: قد يتم التعرض لخطر الصدمة الكهربائية بسبب الماء أو المحلول المائي الذي يوجد بهذا المنتج.
تجنب العمل في أو بالقرب من أي جهاز فعال بأيدي مبللة أو عند وجود تسرب للماء. (L016)

AVISO: Risco de choque elétrico devido à presença de água ou solução aquosa no produto. Evite trabalhar no equipamento ligado ou próximo a ele com as mãos molhadas ou quando houver a presença de água derramada. (L016)

ОПАСНО: Риск от токов удар поради вода или воден разтвор, присъстващи в продукта. Избягвайте работа по или около оборудване под напрежение, докато сте с мокри ръце или когато наоколо има разляна вода. (L016)

DANGER : Risque de choc électrique lié à la présence d'eau ou d'une solution aqueuse dans ce produit. Évitez de travailler avec ou à proximité d'un équipement sous tension avec des mains mouillées ou lorsque de l'eau est renversée. (L016)

危险: 由于本产品中存在水或者水溶液, 因此存在电击风险。请避免使用潮湿的手在带电设备或者有水溅出的环境附近工作。 (L016)

危險: 本產品中有水或水溶液, 會造成電擊的危險。手濕或有潑濺的水花時, 請避免使用或靠近帶電的設備。 (L016)

OPASNOST: Rizik od električnog udara zbog vode ili tekućine koja postoji u ovom proizvodu. Izbjegavajte rad u blizini opreme pod naponom s mokrim rukama ili kad je u blizini prolivena tekućina. (L016)

NEBEZPEČÍ: Riziko úrazu elektrickým proudem v důsledku vody nebo vodního roztoku přítomného v tomto produktu. Dejte pozor, abyste při práci s aktivovaným vybavením nebo v jeho blízkosti neměli mokré ruce a vyvarujte se potřísnění nebo polití produktu vodou. (L016)

Fare! Risiko for stød på grund af vand eller en vandig opløsning i produktet. Undgå at arbejde med eller i nærheden af strømførende udstyr med våde hænder, eller hvis der er spildt vand. (L016)

GEVAAR: Risico op elektrische schok door water of waterachtige oplossing die aanwezig is in dit product. Vermijd werken aan of naast apparatuur die onder spanning staat als u natte handen hebt of als gemorst water aanwezig is. (L016)

DANGER: Risk of electric shock due to water or a water solution which is present in this product. Avoid working on or near energized equipment with wet hands or when spilled water is present. (L016)

ОПАСНО: Риск поражения электрическим током вследствие присутствия в этом продукте воды или водного раствора. Избегайте выполнения работ на оборудовании, находящемся под напряжением, или рядом с таким оборудованием влажными руками или при наличии пролитой воды. (L016)

NEBEZPEČENSTVO: Riziko úrazu elektrickým proudem v důsledku přítomnosti vody alebo vodného roztoku v tomto produkte. Vyhnite sa práci na zapnutom zariadení alebo v jeho blízkosti s vlhkými rukami, alebo keď je prítomná rozliata voda. (L016)

NEVARNOST: Nevarnost električnega udara zaradi vode ali vodne raztopine, prisotne v izdelku. Ne delajte na opremi ali poleg opreme pod energijo z mokrimi rokami ali ko je prisotna razlita voda. (L016)

PELIGRO: Existe riesgo de choque eléctrico por agua o por una solución de agua que haya en este producto. Evite trabajar en equipos bajo tensión o cerca de los mismos con las manos húmedas o si hay agua derramada. (L016)

Fara: Risk för elektriska stötar på grund av vatten eller vattenbaserat medel i denna produkt. Arbeta inte med eller i närheten av elektriskt laddad utrustning om du har våta händer eller vid vattenspill. (L016)

ཉེན་བརྒྱུ་: རྩོམ་ཆས་འདི་ནི་ནང་དུ་ཆུ་འཕ་ཆུ་འཛིན་གྱི་ཞེ་གཟུགས་འདུས་ཡོད་པས། དེ་ལས་སྒྲིག་ཆུག་པའི་ཉེན་ཁ་ཡོད། ལག་པའི་ཐོག་ཆུ་ཡོད་པའམ་ཆུ་ཐིག་མར་བཞུར་བའི་གནས་ཆུ་ལ་འོག་སྒྲིག་ཡོད་པའི་སྒྲིག་ཆས་ལ་བཞོལ་སྤྱོད་བྱེད་མི་ཉེན་པོ། (L016)

خەتەرلىك: بۇ مەھسۇلاتتا سۇ ياكى ئېرىتمە بولغاچقا، شۇڭا توك سوقۇۋېتىش خەۋپى مەۋجۇتدۇر. قول ھۆل ھالەتتە ۋە ياكى سۇ سىرغىپ چىققان ھالەتتە، توكلۇق ئۇسكۈنىگە قارىتا ۋە ياكى توكلۇق ئۇسكۈنىنىڭ ئىتراپىدا مەشغۇلات ئېلىپ بارغىلى بولمايدۇ. (L016)

Yungyiemi: Youzyiz aen canjbinj miz raemx roxnaeuz raemx yungzyiz, sojyij miz yungyiemi bungqden. Mboujndaej fwngz miz raemx seiz youq ndaw sezbi roxnaeuz youq henzgyawj guhhong. (L016)

Attention: Ensure proper handling procedures are followed when working with any chemically treated water used in the compute rack cooling system. Ensure that material safety data sheets (MSDS) and safety information are provided by the water chemical treatment supplier and that proper personal protective equipment (PPE) is available as recommended by the water chemical treatment supplier. Protective gloves and eyewear may be recommended as a precaution.

To replace the server manifold, complete the following steps.

Procedure

1. Install new manifold section into the manifold and connect couplings.

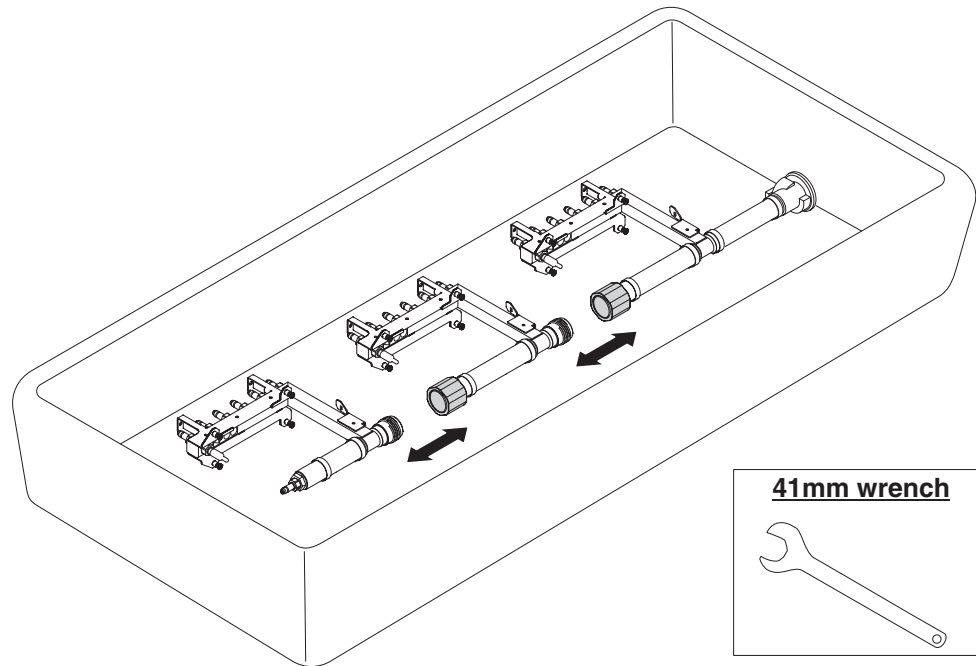


Figure 31. Manifold assembly

2. Tighten 4 screws (using the screwdriver contained in the manifold repair kit) between manifold bracket and chassis.

Back view of chassis

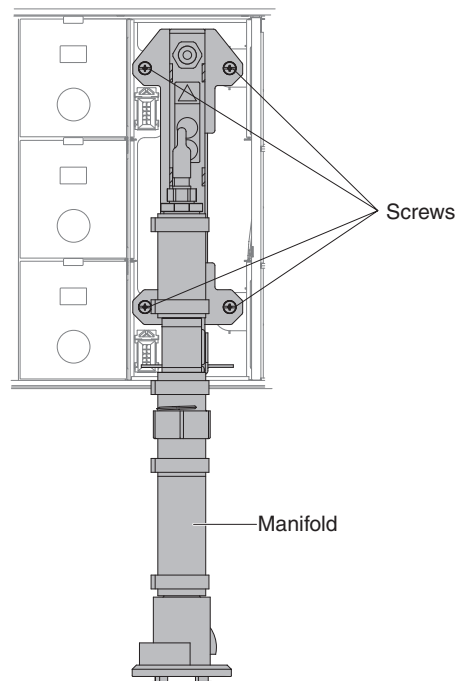


Figure 32. Manifold screw locations

3. Starting from the top, connect the manifold bracket for the top manifold section into the top chassis.

4. Continue to connect the other manifold sections working from the top down to the bottom.
5. Reinstall all drip sensor assemblies into chassis.

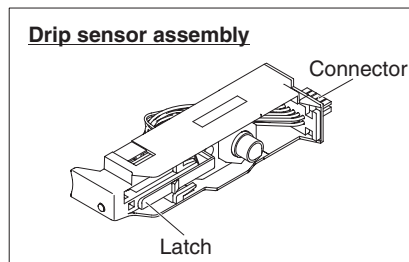
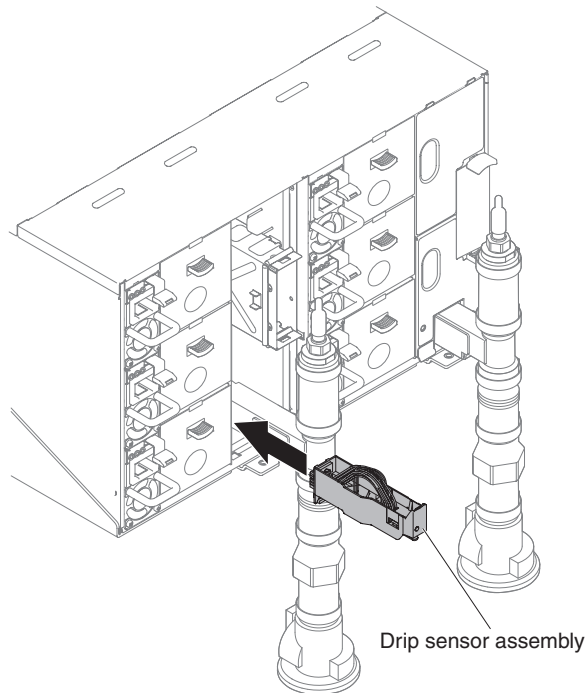


Figure 33. Drip sensor assembly installation

6. For the manifold water fill/refill process, at the rear of the rack, connect the blue hose assembly (supplied to customer installation site) to the top quick connect at the top of the rack (location A). Make sure the hose still remains in the bucket with the valve closed (valve handle perpendicular to the hose).

Note: The red plug cover will need to be removed at all positions first in order to plug to the quick connects.

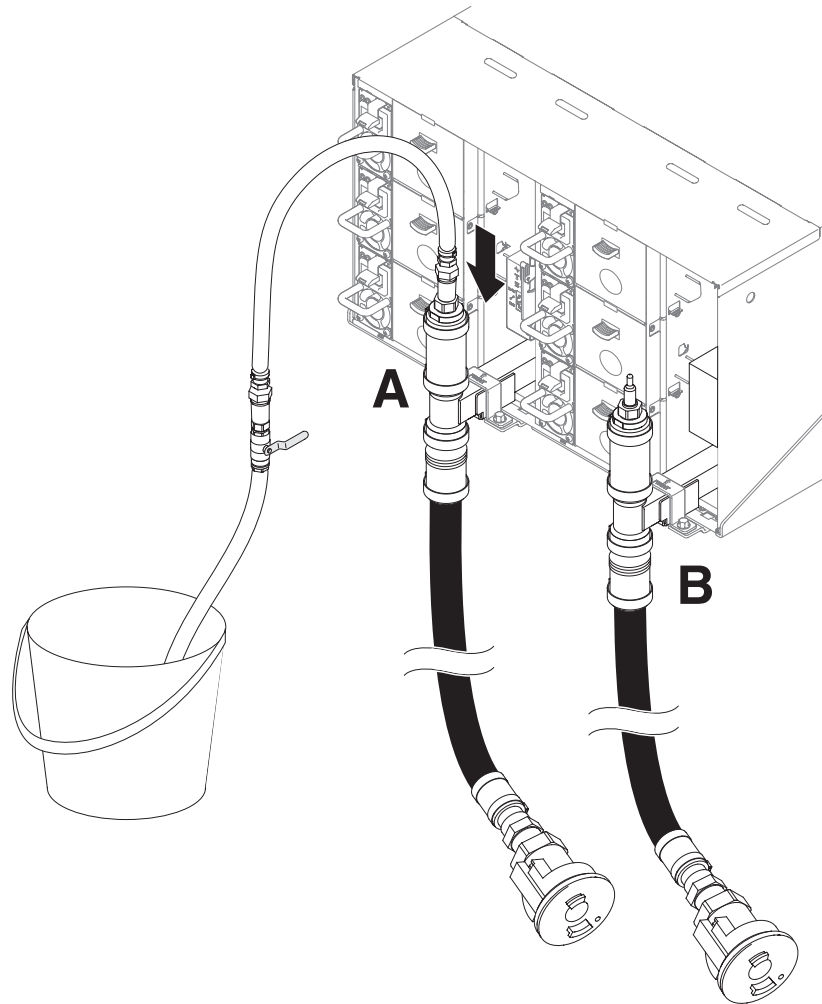


Figure 34. Blue hose assembly to top quick connect connection

7. At the front of the rack, connect the facility supply hose to the rack return hose. Partially open the supply hose, about 1/4 of the way.

Note: Do not fully open the facility ball valve or you will reduce your ability to control the flow as you fill the rack.

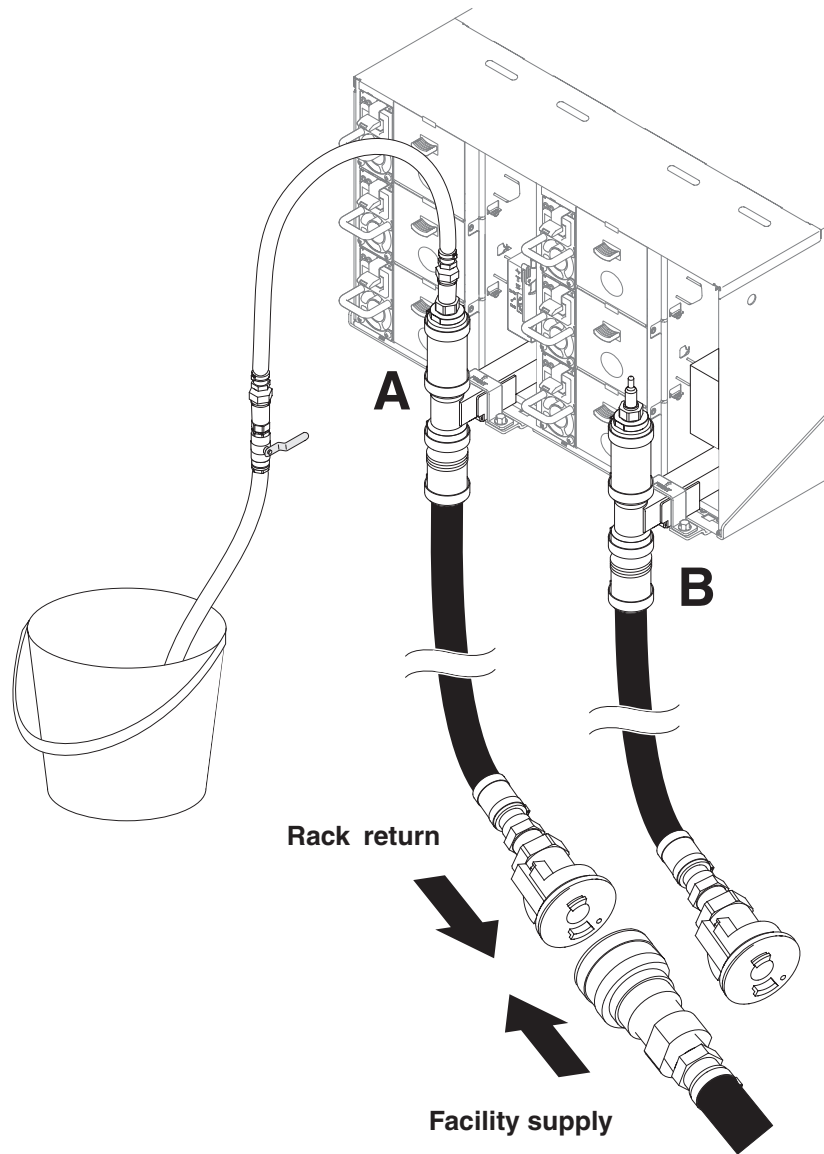


Figure 35. Facility supply hose to rack return hose connection

8. At the back of the rack, slowly open the valve on the blue hose part of the way allowing air to flow out of the hose. Allow this to take place until a steady stream of water flows into the bucket or there are minimal bubbles in the sight-glass. It may take approximately 1 to 2 minutes for air bubbles to clear the hose.

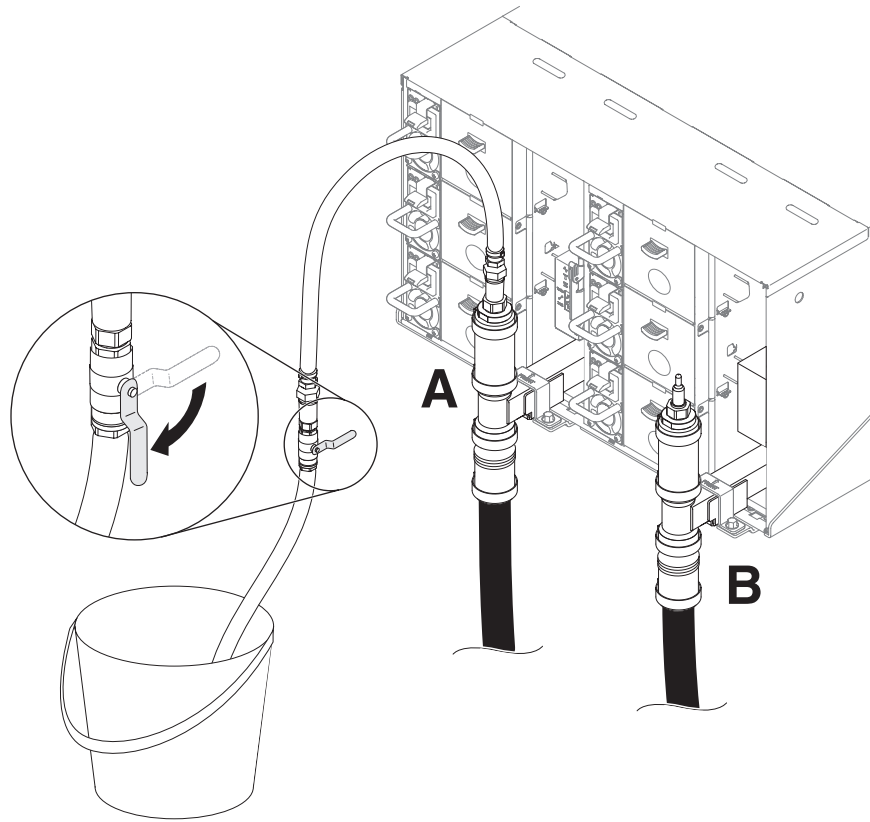


Figure 36. Blue hose valve opening

9. Close the valve on the blue hose. Then disconnect the blue hose assembly from Location A and move to Location B. Slowly open the valve and allow this to stay in place until a steady stream of water flows into the bucket or there are minimal bubbles in the sight-glass. Close the valve on the blue hose again.

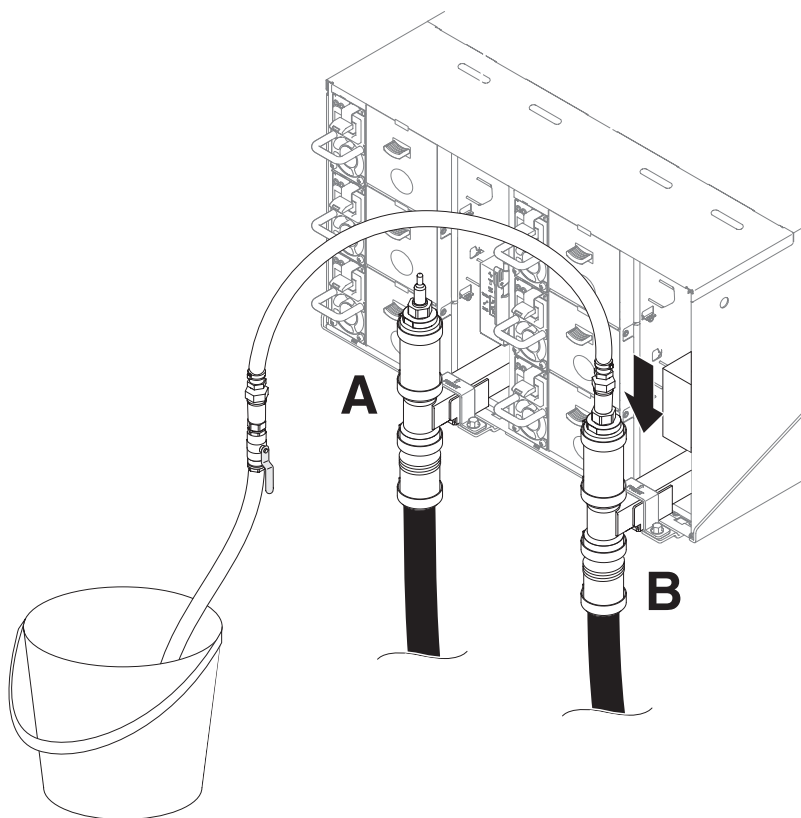


Figure 37. Hose assembly movement

10. Go back to the front of the rack, disconnect the facility supply hose from the rack return hose and connect the facility supply hose to the rack supply hose.

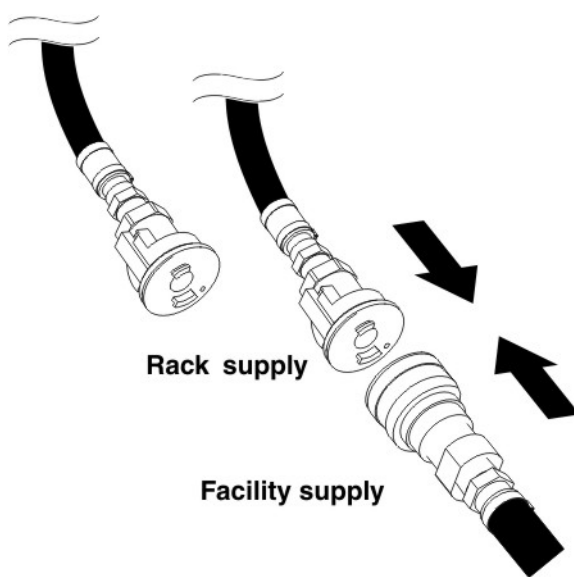


Figure 38. Facility supply hose to the rack supply hose connection

11. Again, at the back of the rack, insure the blue hose still remains connected to Location B. Open the valve on the blue hose and leave in place until a steady

stream of water flows into the bucket or there are minimal bubbles in the sight-glass.

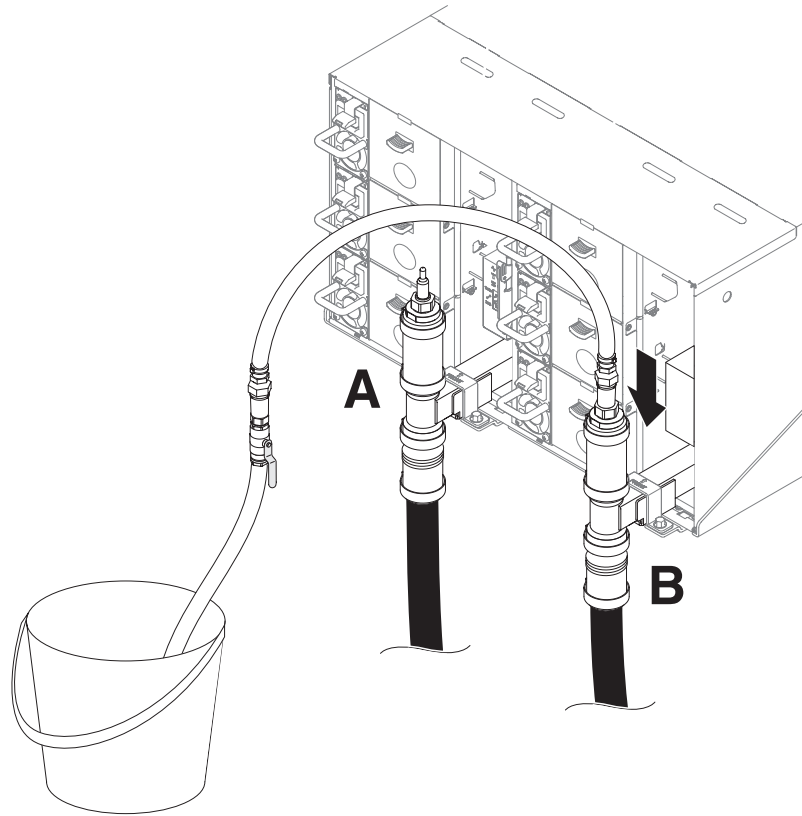


Figure 39. Hose assembly movement

12. Close the valve on the blue hose. Then remove blue hose assembly from Location B and move to Location A. Open the valve on the blue hose and allow this to stay in place until a steady stream of water flows into the bucket or there are minimal bubbles in the sight-glass.

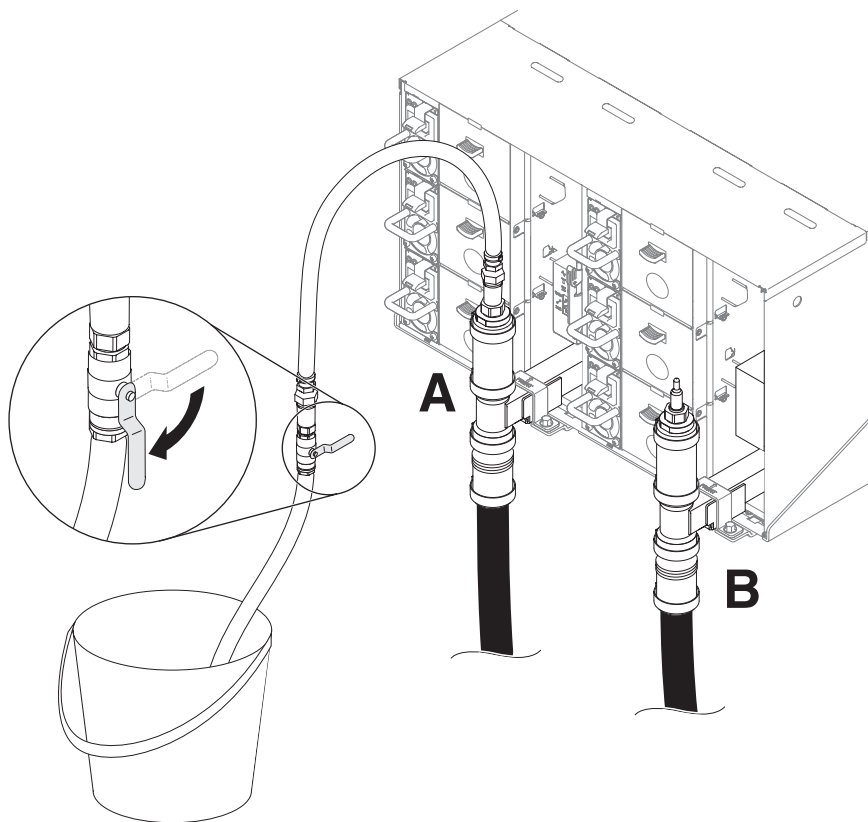


Figure 40. Blue hose valve opening

13. Close the valve on the blue hose. Disconnect and move to Location C and open the valve slowly. Leave in place until a steady stream of water flows or minimal bubbles are in the sight-glass. Approximate time 10-15 seconds.

Note:

- Top position EMC shields on all chassis positions will need to be removed in order to access the quick connects.
- The red plug covers will need to be removed first in order to access the quick connects.

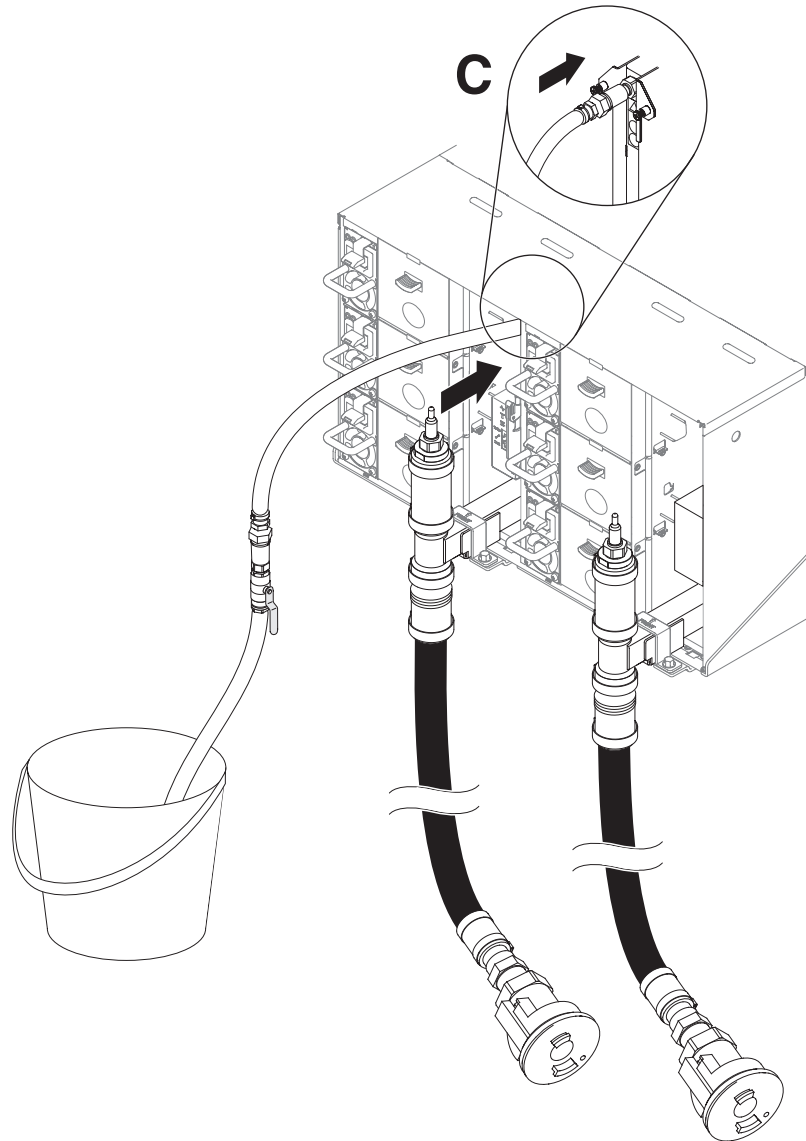


Figure 41. Hose assembly movement

14. Close the valve on the blue hose. Disconnect and move the blue hose to Location D and repeat the process down the full rack ensuring each chassis has minimal air bubbles in the sight glass.

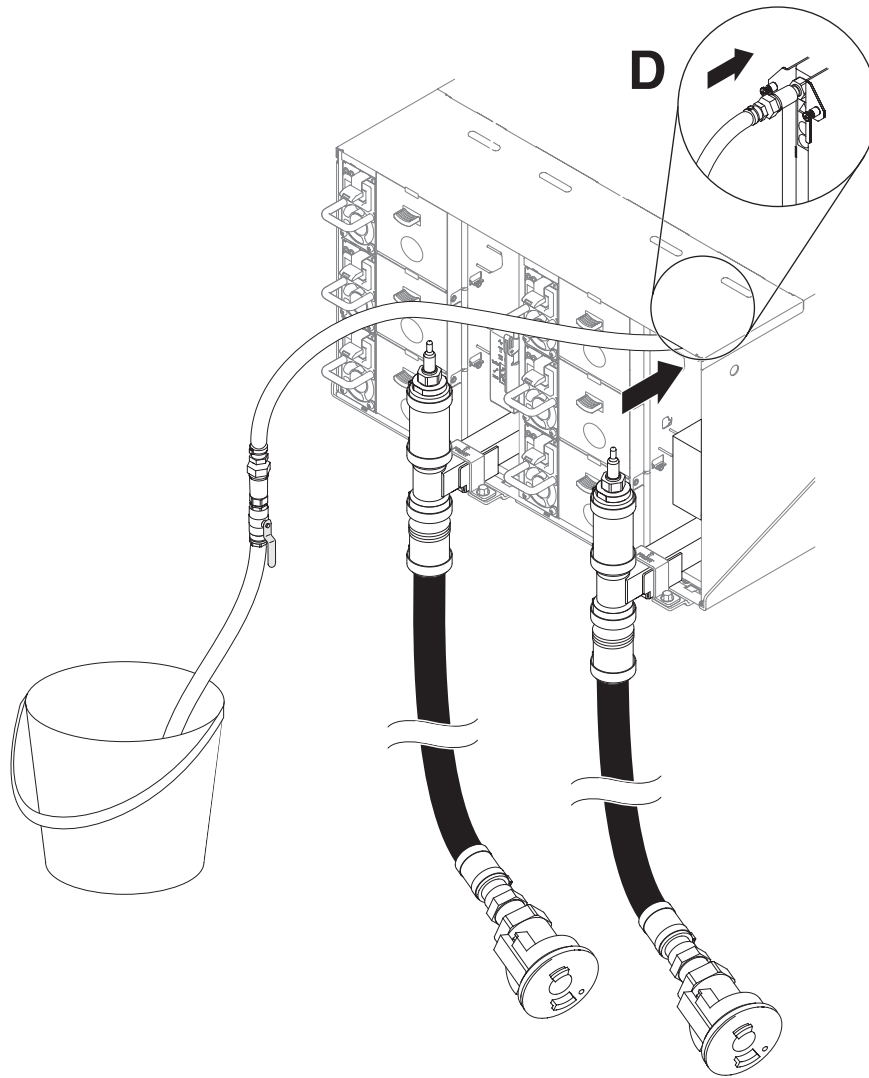


Figure 42. Hose assembly movement

15. Continue to each chassis from the top chassis to the bottom chassis by reaching into each chassis Location C and Location D quick connects and allow for a steady stream of water to flow. There should be minimal air present in the sight glass.

Note: Be sure to always close the valve on the blue hose before disconnecting it from one of the chassis locations as you work your way down the rack.

16. Once complete, go back to the front and connect the facility return hose to the rack return hose. Fully open all connections on both the supply and return side. The manifold should be completely filled.

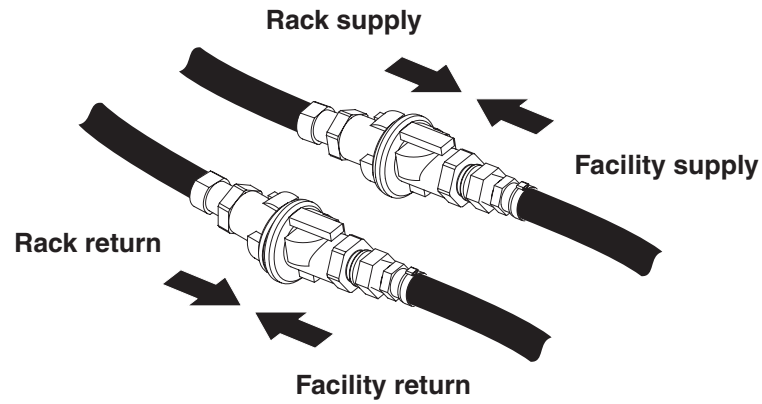


Figure 43. Facility return hose to the rack return hose connection

17. Check for leaks at the rear or the rack.
18. Install the FPC support bracket.
19. Reinstall all FPC card modules and fillers.

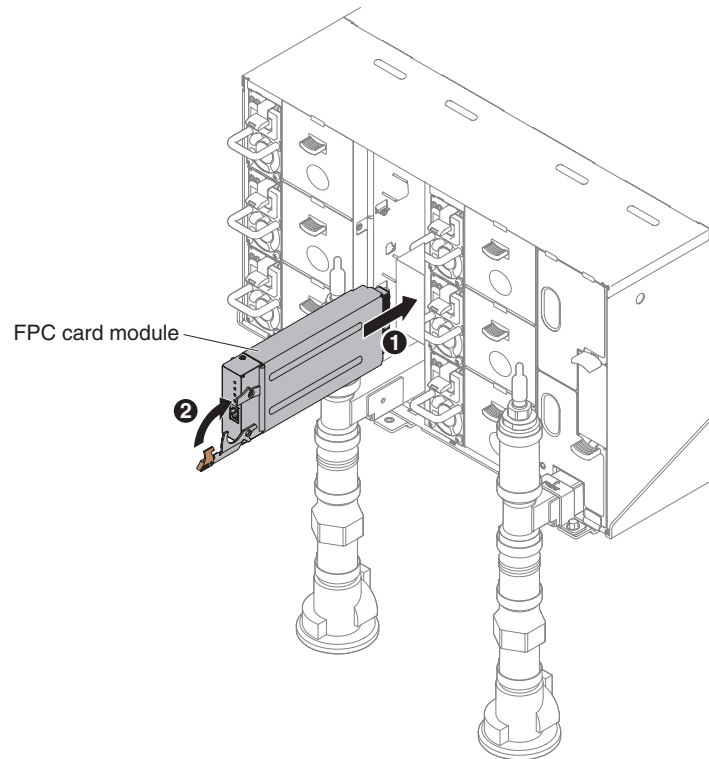


Figure 44. FPC card module installation

20. Reinstall all EMC shields.

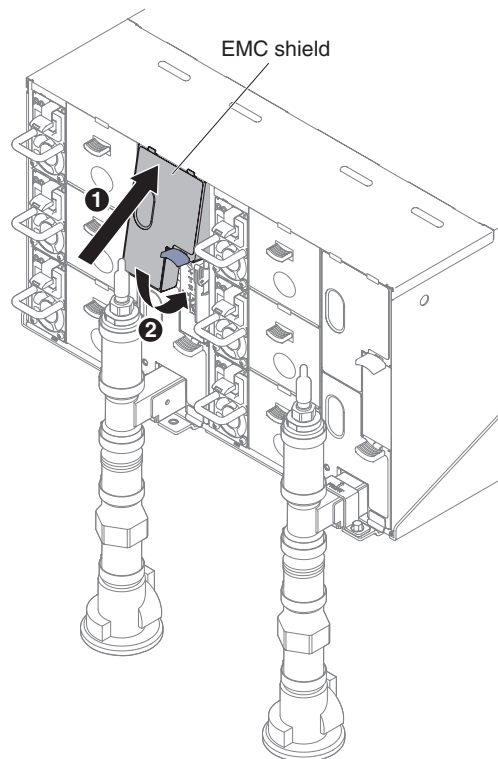


Figure 45. EMC shields installation

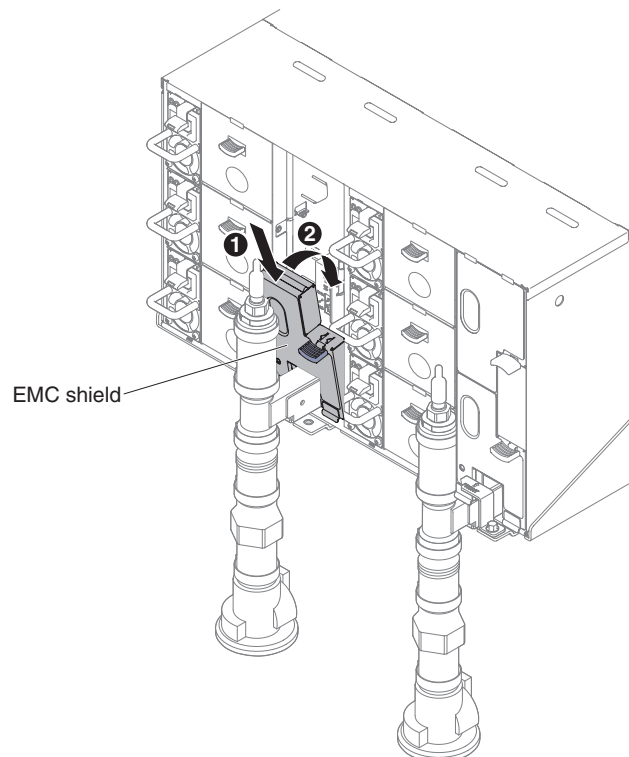


Figure 46. EMC shields installation

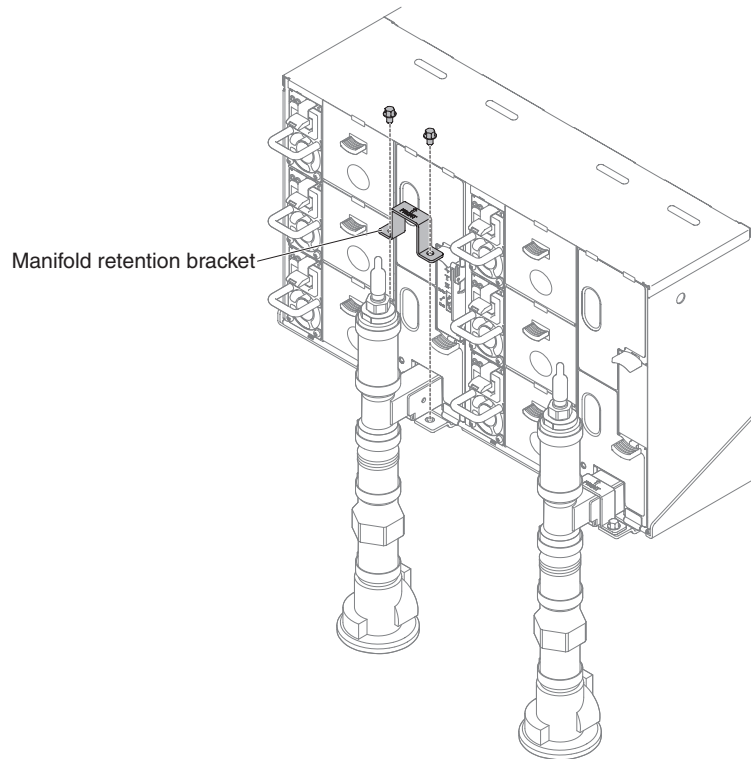


Figure 47. Retention bracket installation

Removing a water-cooled technology tray from a chassis

Use this information to remove a water-cooled technology tray from a NeXtScale nx360 M5 water-cooled technology tray.

Before you begin

Before you remove a water-cooled technology tray, complete the following steps:

1. Read “Safety” on page v and “Installation guidelines” on page 28.
2. If the water-cooled technology tray is operating, shut down the operating system.
3. Press the power button to turn off both systems in the water-cooled technology tray (see “Turning off the server” on page 18 for more information).

Procedure

To remove the water-cooled technology tray from a chassis, complete the following steps:

1. Open the front handles as shown in the illustration. The water-cooled technology tray moves out of the tray bay approximately 0.6 cm (0.25 inch).

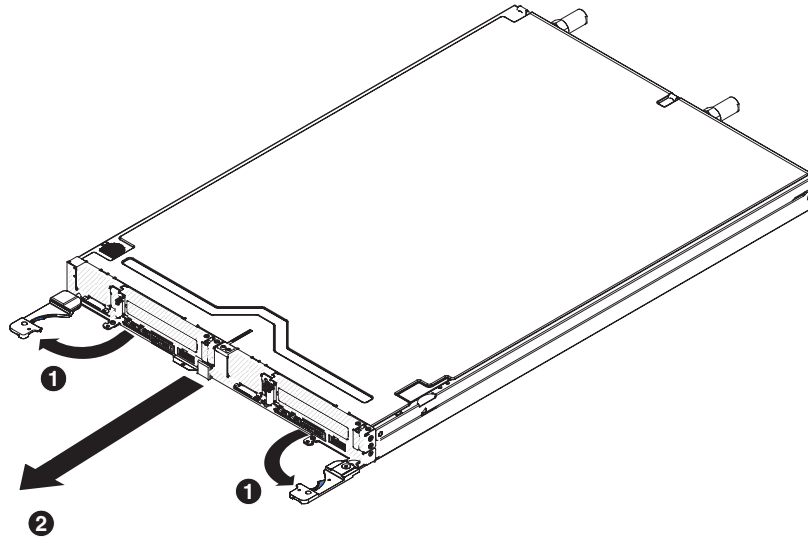


Figure 48. Removal of a NeXtScale nx360 M5 water-cooled technology tray from a chassis

Attention:

- To maintain proper system cooling, do not operate the Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469 without a water-cooled technology tray or tray bay filler installed in each tray bay.
 - When you remove the water-cooled technology tray, note the tray bay number. Reinstalling a water-cooled technology tray into a different tray bay from the one it was removed from can have unintended consequences. Some configuration information and update options are established according to tray bay number. If you reinstall the water-cooled technology tray into a different tray bay, you might have to reconfigure the water-cooled technology tray.
2. Pull the water-cooled technology tray out of the tray bay.
 3. Once the water-cooled technology tray has been serviced, place the tray back into the original position as soon as possible.

What to do next

If you are instructed to return the water-cooled technology tray, follow all packaging instructions, and use any packaging materials for shipping that are supplied to you.

Installing a water-cooled technology tray in a chassis

Use this information to install a water-cooled technology tray in a Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469.

Before you begin

Before you install the water-cooled technology tray in a chassis, read “Safety” on page v and “Installation guidelines” on page 28.

Statement 21



CAUTION:

Hazardous energy is present when the water-cooled technology tray is connected to the power source. Always replace the compute tray cover before installing the water-cooled technology tray.

If you are installing a water-cooled technology tray model without an integrated Ethernet controller, you must install a network interface adapter before you install the water-cooled technology tray in the chassis for management network communication. For a list of supported optional devices for the water-cooled technology tray, see <http://www.ibm.com/systems/info/x86servers/serverproven/compat/us>.

Procedure

To install the water-cooled technology tray in a chassis, complete the following steps.

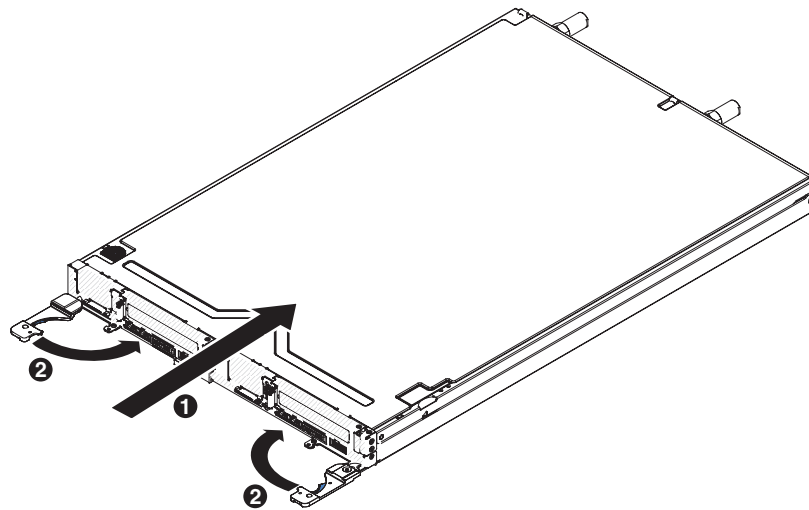


Figure 49. Installing the water-cooled technology tray in a Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469

1. Select the tray bay.

Notes:

- a. If you are reinstalling a water-cooled technology tray that you removed, you must install it in the same tray bay from which you removed it. Some water-cooled technology tray configuration information and update options are established according to tray bay number. Reinstalling a water-cooled technology tray into a different tray bay can have unintended consequences. If you reinstall the water-cooled technology tray into a different tray bay, you might have to reconfigure the water-cooled technology tray.
 - b. To maintain proper system cooling, do not operate the Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469 without a water-cooled technology tray or tray bay filler in each tray bay.
2. Make sure that the front handles on the water-cooled technology tray are in the open position.
 3. Slide the water-cooled technology tray into the tray bay until it stops.
 4. Push the front handles on the front of the water-cooled technology tray to the closed position.

Note: After the water-cooled technology tray is installed, the IMM2.1 in the water-cooled technology tray initializes. This process takes approximately 90 seconds. The power LED flashes rapidly, and the power button on the water-cooled technology tray does not respond until this process is complete.

5. Press the power button to turn on both systems in the water-cooled technology tray (see “Turning on the server” on page 17 for instructions).
6. Make sure that the power LED on the water-cooled technology tray control panel is lit continuously, indicating that the water-cooled technology tray is receiving power and is turned on.
7. If you have other water-cooled technology tray to install, do so now.

What to do next

If this is the initial installation of the water-cooled technology tray in the chassis, you must configure the water-cooled technology tray through the Setup utility and install the water-cooled technology tray operating system.

If you have changed the configuration of the water-cooled technology tray or if you are installing a different water-cooled technology tray from the one that you removed, you must configure the water-cooled technology tray through the Setup utility, and you might have to install the water-cooled technology tray operating system (see “Using the Setup utility” on page 35).

Removing and replacing structural parts

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

Replacement of structural parts is your responsibility. If Lenovo installs a structural part at your request, you will be charged for the installation.

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

Removing the cover

Use this information to remove the cover.

Before you begin

Read the safety information in “Safety” on page v and “Installation guidelines” on page 28.

If you are replacing a server component or installing an optional device in the server, you need to slide the server out from the rack enclosure, turn off the server and peripheral devices, and disconnect the power cords and all external cables.

About this task

To remove the server cover, complete the following steps.

Procedure

1. Put the server on a working area before you remove any server components or parts from the server.
2. Press on the release latch and the push point at the same time and slide the cover toward the rear of the water-cooled technology tray.

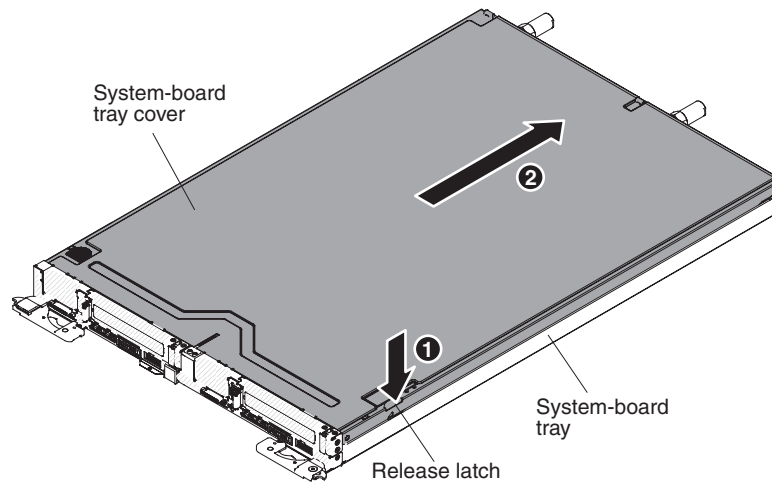


Figure 50. Cover removal

3. Lift the server cover off the water-cooled technology tray and set it aside.

Replacing the cover

Use this information to replace the cover.

Before you begin

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

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.

About this task

To replace the server cover, complete the following steps.

Procedure

1. Position the cover on top of the server.
2. Slide the cover toward the front of the server.

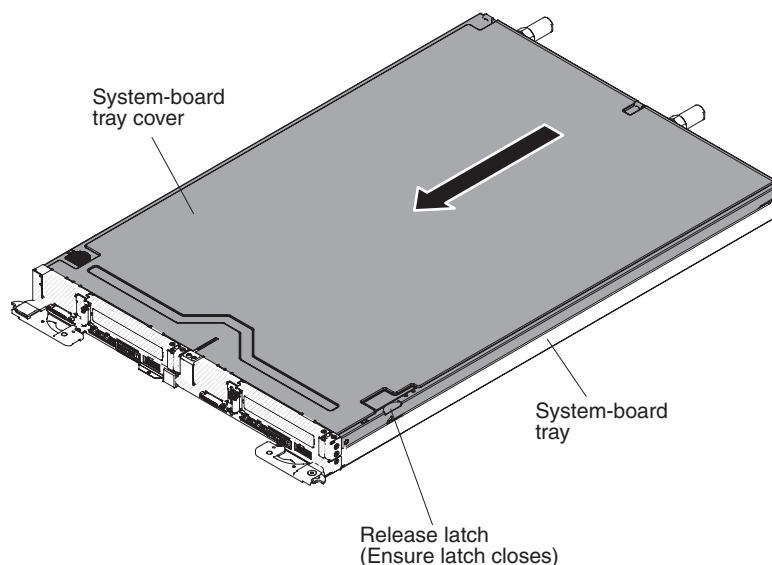


Figure 51. Cover installation

3. Make sure that the cover correctly engages all the inset tabs on the server.

Removing and replacing Tier 1 CRUs

This section provides information for removing and replacing Tier 1 CRUs in the server.

Replacement of Tier 1 CRUs is your responsibility. If Lenovo installs a Tier 1 CRU at your request, you will be charged for the installation.

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

Removing a DIMM

Use this information to remove a memory module.

Before you begin

Read the safety information in “Safety” on page v and “Installation guidelines” on page 28.

If you are replacing a server component in the water-cooled technology tray, you need to remove the water-cooled technology tray from the chassis enclosure and refer to the “Removing a water-cooled technology tray from a chassis” on page 139 and “Installing a water-cooled technology tray in a chassis” on page 140 sections.

About this task

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

Procedure

1. Remove the cover (see “Removing the cover” on page 142).
2. Remove the DIMM cover.

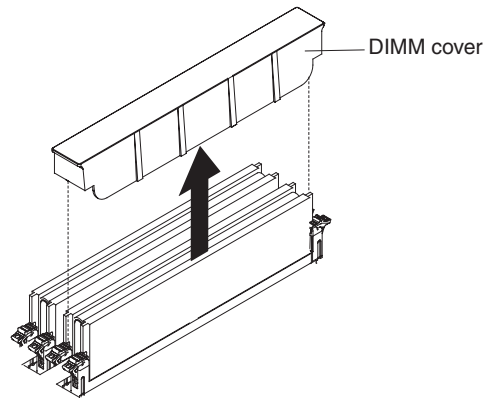


Figure 52. DIMM cover removal

3. 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, handle the clips gently.

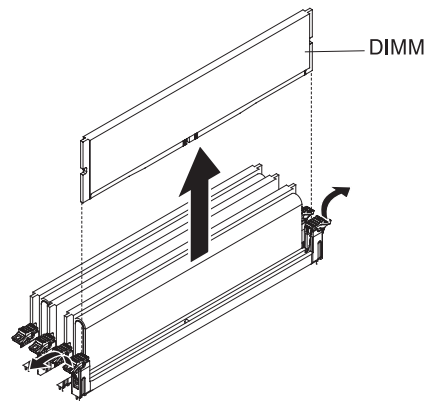


Figure 53. DIMM removal

What to do next

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

Memory module installation

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

- Confirm that the server supports the DIMM that you are installing (see <http://www.ibm.com/systems/info/x86servers/serverproven/compat/us>).
- 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. You can use the Setup utility to view the server configuration information, see “Using the Setup utility” on page 35 for more information.
- 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 PC4v-wwwwwm-aa-bb-ccd

where:

- *ggggg* is the total capacity of the DIMM (for example, 1GB, 2GB, or 4GB)
- *eR* is the number of ranks
 - 1R = single-rank
 - 2R = dual-rank
 - 4R = quad-rank
- *xff* is the device organization (bit width)
 - x4 = x4 organization (4 DQ lines per SDRAM)
 - x8 = x8 organization
 - x16 = x16 organization
- *v* is the SDRAM and support component supply voltage (VDD)
 - Blank = 1.2 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 nRxxx PC4v-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 2133 MHz
 - When you install 2 RDIMMs per channel, the memory runs at 1866 MHz
 - When you install 3 RDIMMs per channel, the memory runs at 1600 MHz
 - All channels in a server run at the fastest common frequency
 - Do not install registered 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 compute node automatically operates with a maximum memory speed of up to 1600 MHz when the following condition is met:

- Two 1.35 V single-rank, dual-rank, or quad-rank RDIMMs or LRDIMMs are installed in the same channel. In the Setup utility, **Memory speed** is set to **Max performance** and **LV-DIMM power** is set to **Enhance performance** mode. The 1.35 V UDIMMs, RDIMMs or LRDIMMs will function at 1.5 V.
- The compute node supports a maximum of 16 single-rank, dual-rank RDIMMs or 16 quad-rank LRDIMMs.
- The following table shows an example of the maximum amount of memory that you can install using ranked DIMMs:

Table 21. Maximum memory installation using ranked DIMMs

| Number of DIMMs | DIMM type | DIMM size | Total memory |
|-----------------|-------------------|-----------|--------------|
| 16 | Single-rank RDIMM | 4 GB | 64 GB |
| 16 | Single-rank RDIMM | 8 GB | 128 GB |
| 16 | Dual-rank RDIMM | 8 GB | 128 GB |
| 16 | Dual-rank RDIMM | 16 GB | 256 GB |
| 16 | Quad-rank LRDIMM | 32 GB | 512 GB |

- The RDIMM options that are available for the compute node are 4 GB, 8 GB, and 16 GB. The compute node supports a minimum of 4 GB and a maximum of 256 GB of system memory using RDIMMs.
- The LRDIMM option that is available for the server is 32 GB. The compute node supports a minimum of 32 GB and a maximum of 512 GB of system memory using LRDIMMs.
- A minimum of one DIMM must be installed for each microprocessor. For example, you must install a minimum of two DIMMs if the compute node has two microprocessors installed. However, to improve system performance, install a minimum of four DIMMs for each microprocessor.
- DIMMs in the compute node must be the same type to ensure that the compute node 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 9-16 are reserved for microprocessor 2; thus, DIMM slots 9-16 are enabled when microprocessor 2 is installed.

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

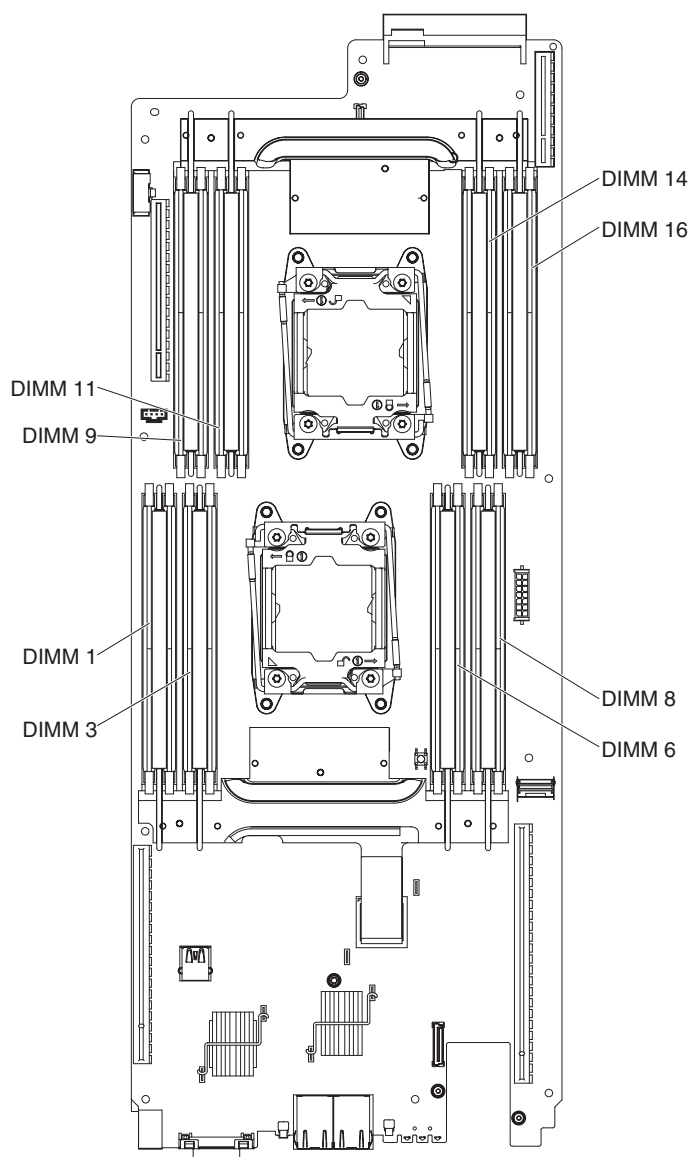


Figure 54. The location of the DIMM connectors on the system board

Installing a DIMM:

Use this information to install a DIMM.

Before you begin

Read the safety information in “Safety” on page v and “Installation guidelines” on page 28.

If you are replacing a server component in the water-cooled technology tray, you need to remove the water-cooled technology tray from the chassis enclosure and refer to the “Removing a water-cooled technology tray from a chassis” on page 139 and “Installing a water-cooled technology tray in a chassis” on page 140 sections.

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.

About this task

To install a DIMM, complete the following steps.

Procedure

1. Remove the cover (see “Removing the cover” on page 142).
2. Locate the DIMM connectors on the system board. Determine the connectors into which you will install the DIMMs. Install the DIMMs in the sequence shown in the following table.

Table 22. Normal mode DIMM installation sequence

| Number of installed microprocessor | DIMM connector population sequence |
|------------------------------------|---|
| One microprocessor installed | 8, 1, 6, 3, 7, 2, 5, 4 |
| Two microprocessors installed | 8, 9, 1, 16, 6, 11, 3, 14, 7, 10, 2, 15, 5, 12, 4, 13 |

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

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

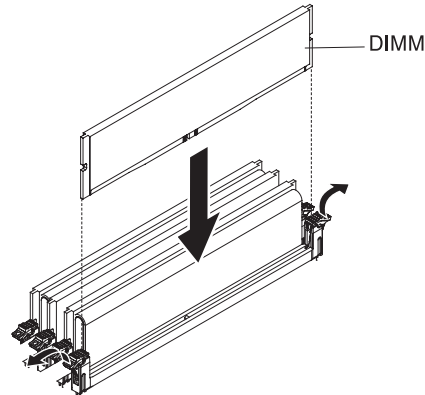


Figure 55. DIMM installation

4. Touch the static-protective package that contains the DIMM to any unpainted metal surface on the outside of the server. Then, remove the DIMM from the package.
5. Turn the DIMM so that the alignment slot align correctly with the alignment tab.
6. Insert the DIMM into the connector by aligning the edges of the DIMM with the slots at the ends of the DIMM connector.
7. Firmly press the DIMM straight down into the connector by applying pressure on both ends of the DIMM simultaneously. The retaining clips snap into the locked position when the DIMM is firmly seated in the connector.

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

8. Install the DIMM cover.

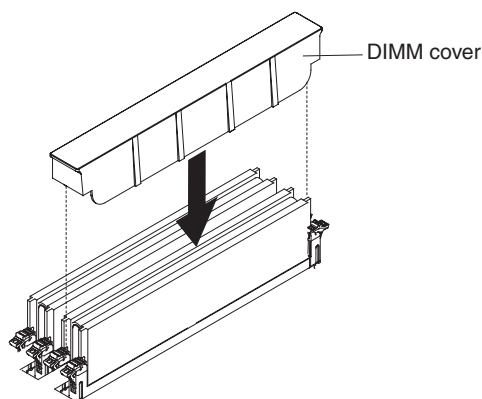


Figure 56. DIMM installation

9. Reinstall the cover (see “Replacing the cover” on page 143).

What to do next

If you have replaced a server component or installed an optional device in the server, you need reinstall the cover, slide the server into the rack, reconnect the power cords and all external cables, and turn on the server and peripheral devices.

Removing the optional PCI or ML2 adapter

Use this information to remove the optional PCI or ML2 adapter.

Before you begin

Read the safety information in “Safety” on page v and “Installation guidelines” on page 28.

If you are replacing a server component in the water-cooled technology tray, you need to remove the water-cooled technology tray from the chassis enclosure and refer to the “Removing a water-cooled technology tray from a chassis” on page 139 and “Installing a water-cooled technology tray in a chassis” on page 140 sections.

About this task

To remove the optional PCI or ML2 adapter, complete the following steps.

Procedure

1. Remove the cover (see “Removing the cover” on page 142).
2. Disconnect the cables from the adapter.
3. Remove the riser and adapter assembly out of the tray.
4. Remove stiffening bracket by removing the M4 screw.
5. Remove Retaining clamp by removing 3x screws.
6. Carefully grasp the adapter and riser by its top edge or upper corners, and pull the adapter from the PCI riser-card assembly.

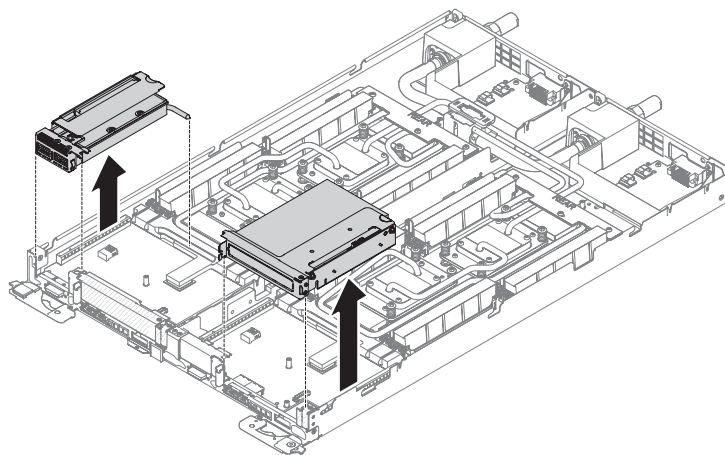


Figure 57. Adapter removal

What to do next

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

Removing the system battery

Use this information to remove the system battery.

Before you begin

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

- Lenovo 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, call your support center or business partner.

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

Do not:

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

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

Read the safety information in “Safety” on page v and “Installation guidelines” on page 28.

If you are replacing a server component in the water-cooled technology tray, you need to remove the water-cooled technology tray from the chassis enclosure and refer to the “Removing a water-cooled technology tray from a chassis” on page 139 and “Installing a water-cooled technology tray in a chassis” on page 140 sections.

About this task

To remove the battery, complete the following steps.

Procedure

1. Remove the cover (see “Removing the cover” on page 142).
2. Remove the PCIe riser card and adapter assembly (if a PCIe card is installed) (see “Removing the optional PCI or ML2 adapter” on page 150).
3. Remove the system battery (see “System-board internal connectors” on page 24):
 - a. Use a fingernail to press the top of the battery clip away from the battery. The battery pops up when it is released.
 - b. Use your thumb and index finger to lift the battery from the socket.

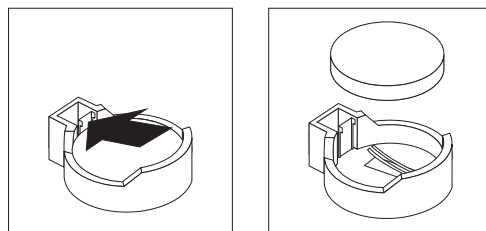


Figure 58. System battery removal

Attention: Do not lift the battery by using excessive force. Failing to remove the battery properly may damage the socket on the system board. Any damage to the socket may require replacing the system board.

4. Dispose of the battery as required by local ordinances or regulations (see the *Environmental Notices and User's Guide* for more information).

Replacing the system battery

Use this information to replace the system battery.

Before you begin

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

- Lenovo 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, call your support center or business partner.

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

Do not:

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

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

Read the safety information in “Safety” on page v and “Installation guidelines” on page 28.

If you are replacing a server component in the water-cooled technology tray, you need to remove the water-cooled technology tray from the chassis enclosure and refer to the “Removing a water-cooled technology tray from a chassis” on page 139 and “Installing a water-cooled technology tray in a chassis” on page 140 sections.

About this task

To replace the battery, complete the following steps.

Procedure

1. Follow any special handling and installation instructions that come with the replacement battery.
2. Remove the cover (see “Removing the cover” on page 142).
3. Locate the battery connector on the system board (see “System-board internal connectors” on page 24).
4. Insert the new battery:
 - a. Orient the battery so that the positive side faces up.
 - b. Tilt the battery so that you can insert it into the socket on the side opposite the battery clip.

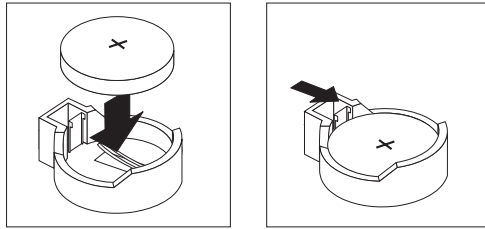


Figure 59. System battery installation

- c. Press the battery down into the socket until it clicks into place. Make sure that the battery clip holds the battery securely.
5. Install the PCIe riser card and adapter assembly (if a PCIe card is installed).
 6. Reinstall the cover (see “Replacing the cover” on page 143).
 7. Slide the server into the rack.
 8. Reconnect the external cables and power cords; then, turn on the attached devices and turn on the server.
 9. Start the Setup utility and reset the configuration:
 - a. Set the system date and time.
 - b. Set the power-on password.
 - c. Reconfigure the server.

See “Starting the Setup utility” on page 35 for details.

Removing a hot-swap power supply

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

Before you begin

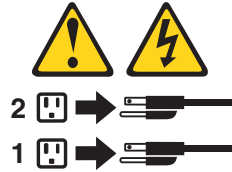
When you remove or install a hot-swap power supply, observe the following precautions.

Statement 5



CAUTION:

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



Statement 8



CAUTION:

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



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

Read the safety information in “Safety” on page v and “Installation guidelines” on page 28.

About this task

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

Attention: If only one hot-swap power supply is installed in the server, you must turn off the server before removing the power supply.

Procedure

1. Disconnect the power cord from the connector on the back of the power supply.
2. Press and hold the orange release tab.

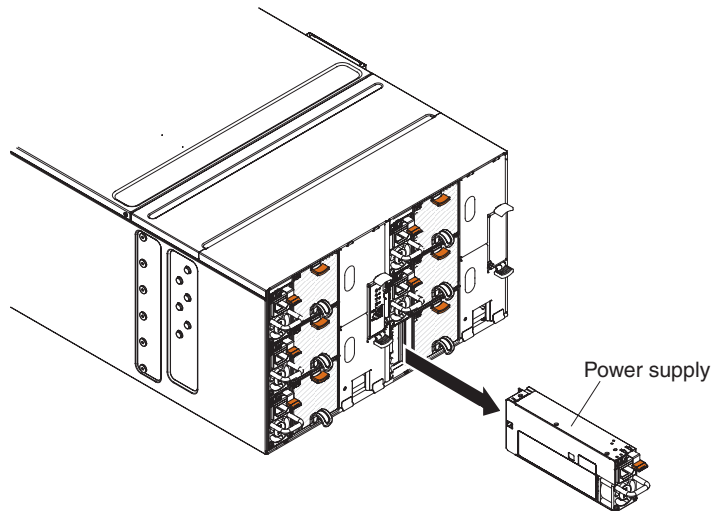


Figure 60. Hot-swap power supply removal

3. Grasp the handle and pull the power supply out of the bay.

What to do next

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

Replacing a hot-swap power supply

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

Before you begin

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:

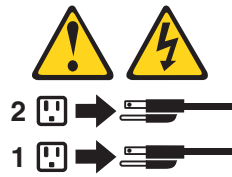
- For redundancy support, you must install an additional hot-swap power supply, if one is not installed in your model.
- Make sure that the devices that you are installing are supported. For a list of supported optional devices for the server, see <http://www.ibm.com/systems/info/x86servers/serverproven/compat/us>.

Statement 5



CAUTION:

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



Statement 8



CAUTION:

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



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

Read the safety information in “Safety” on page v and “Installation guidelines” on page 28.

About this task

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

Procedure

1. Slide the hot-swap power supply into the bay until the release latch clicks into place.

Important: During normal operation, each power-supply bay must contain either a power supply or power-supply filler panel for proper cooling.

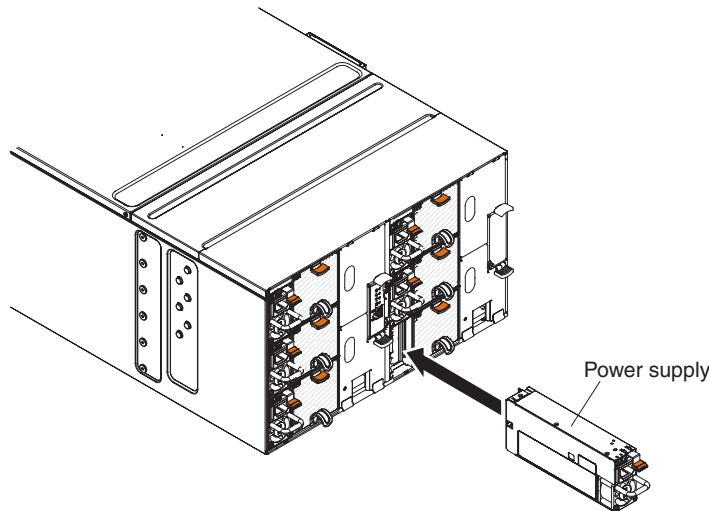


Figure 61. Hot-swap power supply installation

2. Connect one end of the power cord for the new power supply into the ac connector on the back of the power supply; then, connect the other end of the power cord into a properly grounded electrical outlet.
3. If the server is turned off, turn on the server.
4. Make sure that the ac power LED on the power supply is lit, indicating that the power supply is operating correctly. If the server is turned on, make sure that the dc power LED on the power supply is lit also.

Removing and replacing Tier 2 CRUs or FRUs

This section provides information for removing and replacing Tier 2 CRUs for FRUs in the server.

You may install a Tier 2 CRU yourself or request Lenovo to install it, at no additional charge, under the type of warranty service that is designated for your server.

FRUs must be installed only by Trained service technicians.

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

Removing the power distribution board

Use this information to remove the power distribution board.

Before you begin

Read the safety information in “Safety” on page v and “Installation guidelines” on page 28.

If you are replacing a server component in the water-cooled technology tray, you need to remove the water-cooled technology tray from the chassis enclosure and refer to the “Removing a water-cooled technology tray from a chassis” on page 139 and “Installing a water-cooled technology tray in a chassis” on page 140 sections.

About this task

To remove the distribution board, complete the following steps:

Procedure

1. Remove the cover (see “Removing the cover” on page 142).
2. Remove the screws on the rear bulkhead bracket. The screw on the rear is a T8 Torx screw while the other screws are T10 Torx

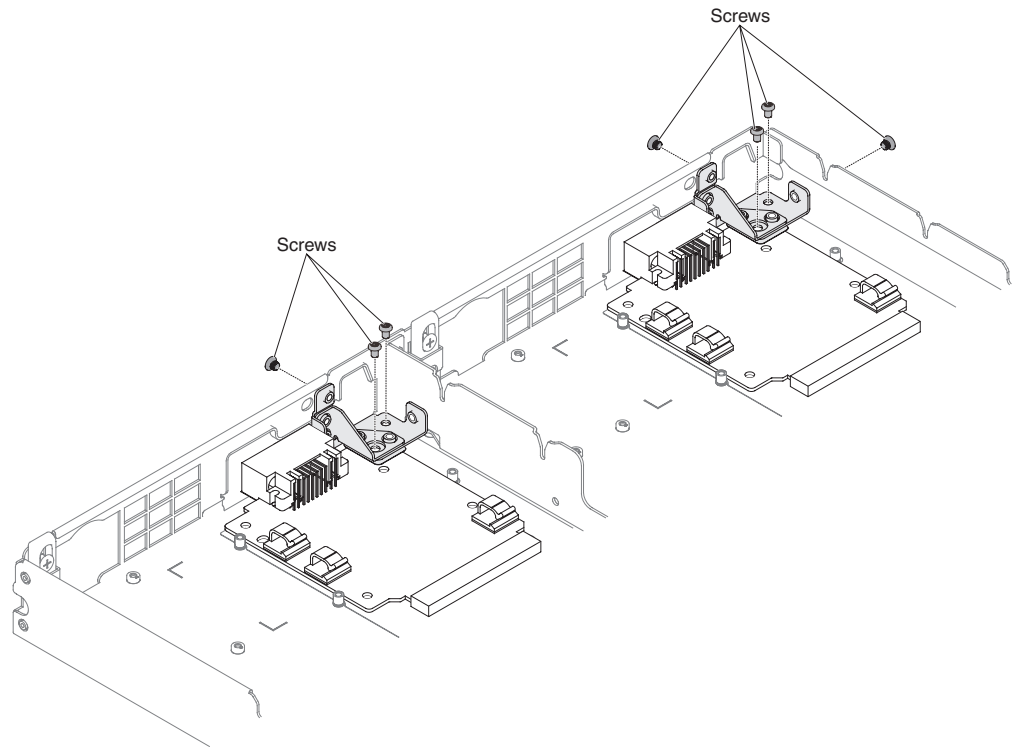


Figure 62. Rear bulkhead bracket screws removal

3. Remove the rear bulkhead bracket.

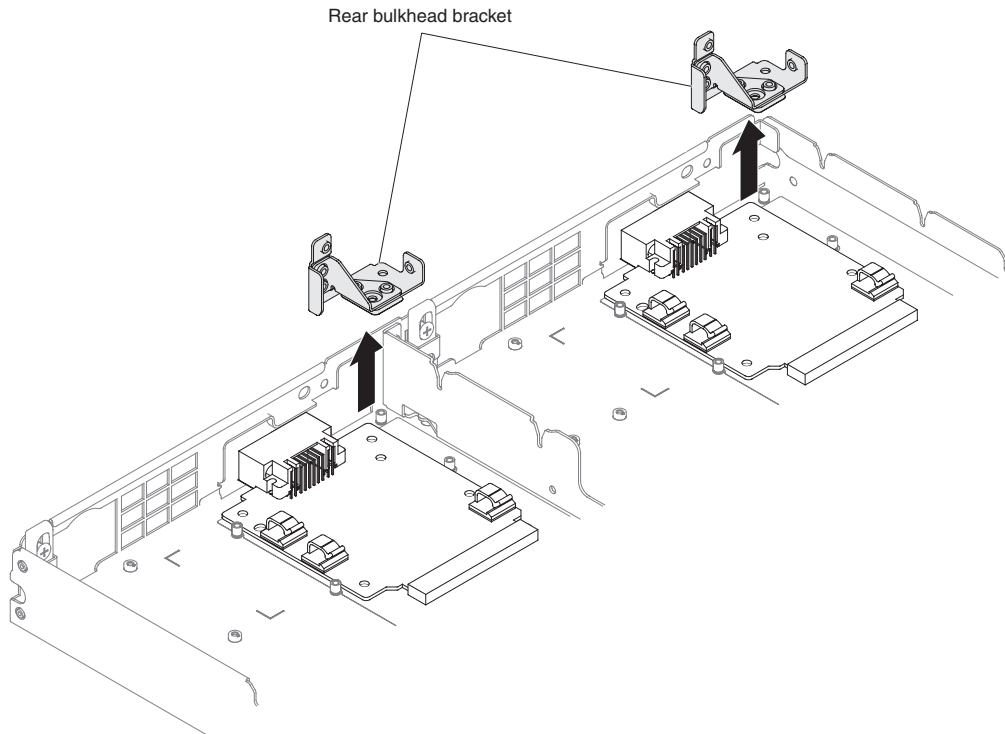


Figure 63. Rear bulkhead bracket removal

4. Remove the three screws that secure the power distribution board to the water-cooled technology tray and save them for future use.

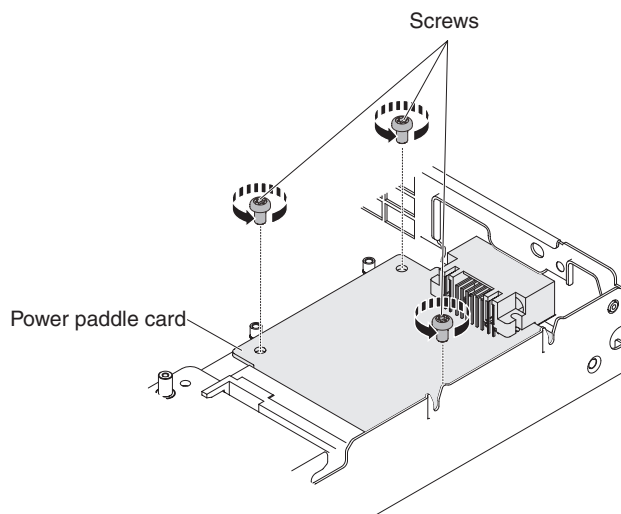


Figure 64. Power distribution board screws removal

5. Remove the power distribution board out of the water-cooled technology tray with an angle.

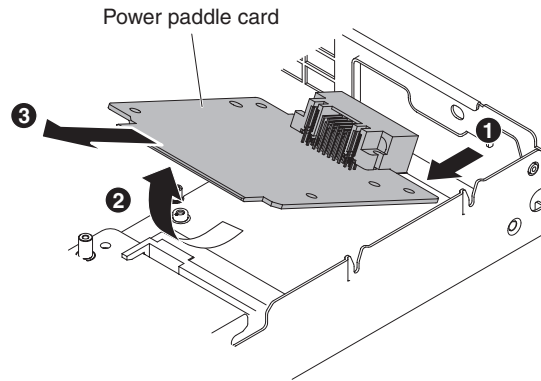


Figure 65. Power distribution board removal

What to do next

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

Replacing the power distribution board

Use this information to install the power distribution board.

Before you begin

Read the safety information in “Safety” on page v and “Installation guidelines” on page 28.

If you are replacing a server component in the water-cooled technology tray, you need to remove the water-cooled technology tray from the chassis enclosure and refer to the “Removing a water-cooled technology tray from a chassis” on page 139 and “Installing a water-cooled technology tray in a chassis” on page 140 sections.

About this task

To install the power distribution board, complete the following steps:

Procedure

1. Turn off the water-cooled technology tray and peripheral devices and disconnect the power cords and all external cables.
2. Remove the cover (see “Removing the cover” on page 142).
3. Place the power distribution board on the mounting studs in the water-cooled technology tray with an angle.

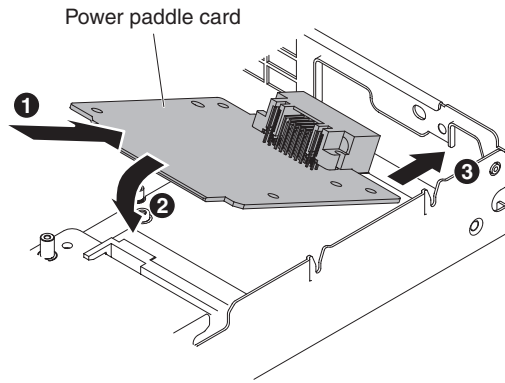


Figure 66. Power distribution board installation

4. Install the three screws that secure the power distribution board to the water-cooled technology tray.

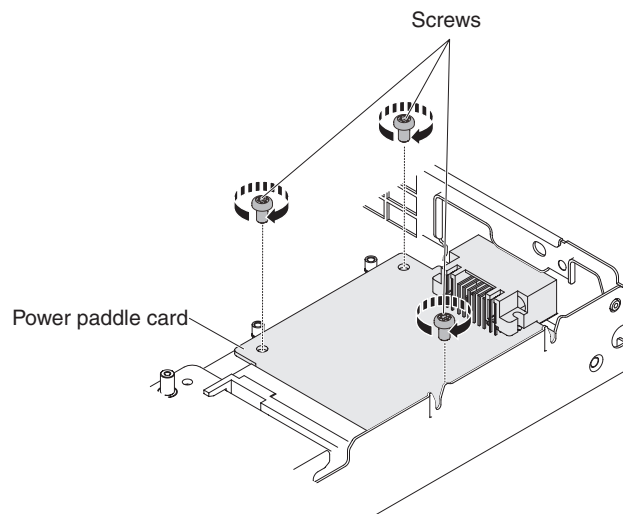


Figure 67. Power distribution board screws installation

5. Install the rear bulkhead bracket.

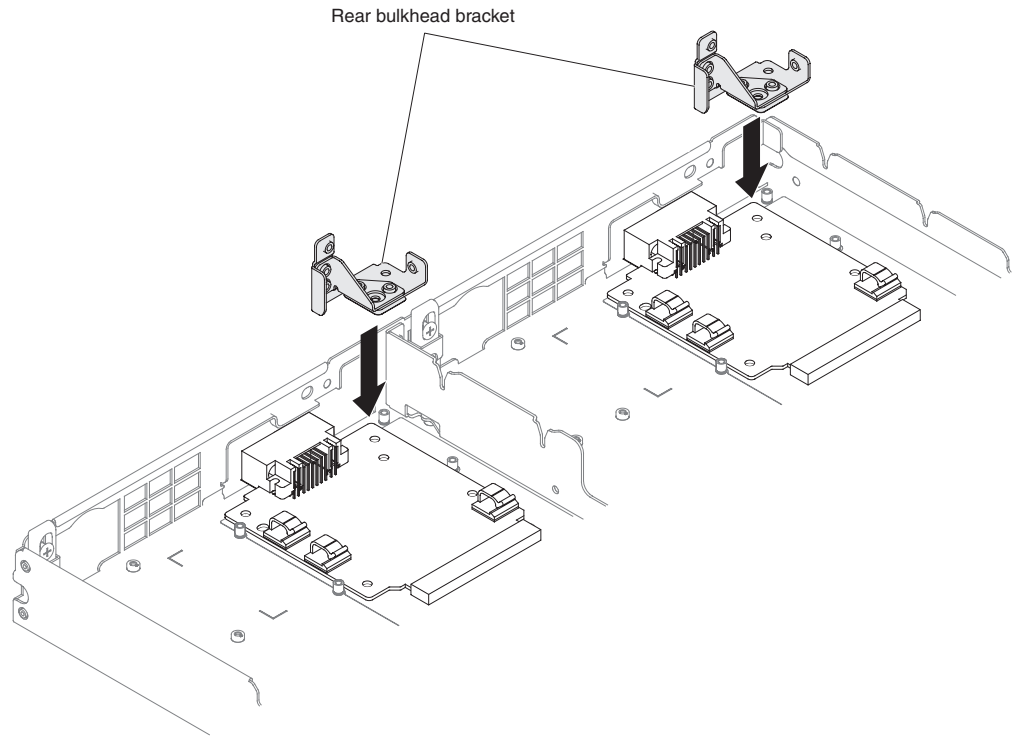


Figure 68. Rear bulkhead bracket installation

6. Install the screws on the rear bulkhead bracket.

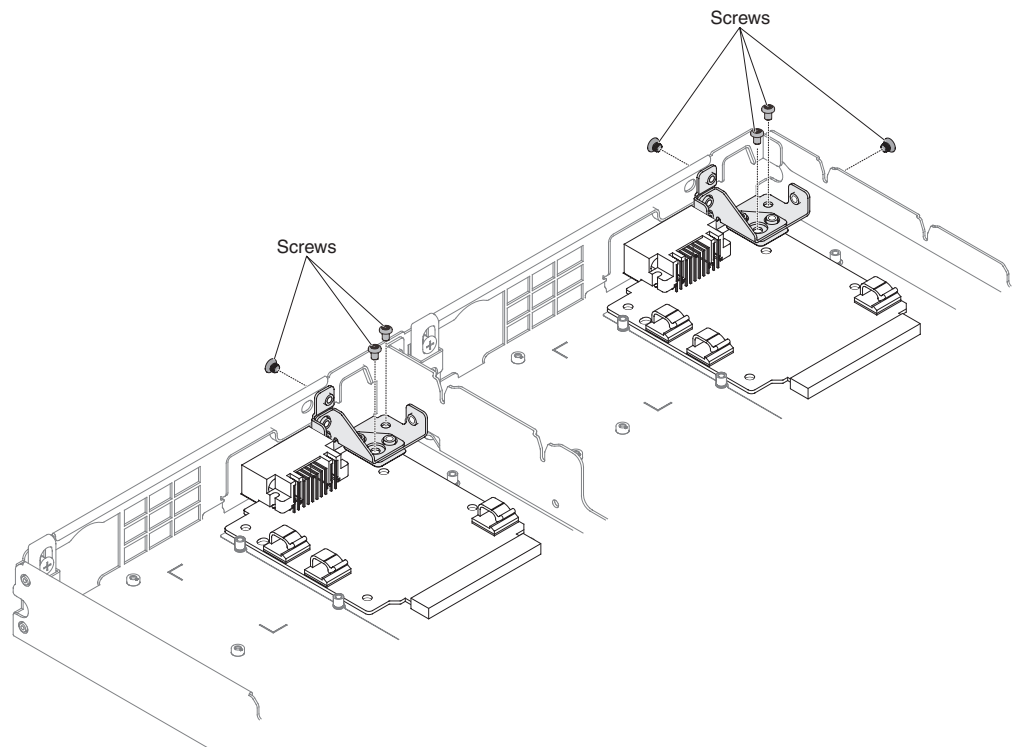


Figure 69. Rear bulkhead bracket screws installation

7. Reinstall the cover (see “Replacing the cover” on page 143).

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

Removing a water loop

Use this information to remove a water loop.

Before you begin

Attention:

- Water loop is to be installed only by trained technicians.
- Do not touch the microprocessor contacts; handle the microprocessor by the edges only. Contaminants on the microprocessor contacts, such as oil from your skin, can cause connection failures between the contacts and the socket.
- The pins on the sockets are fragile. Any damage to the pins might require replacing the system board.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 28.

If you are replacing a server component in the water-cooled technology tray, you need to remove the water-cooled technology tray from the chassis enclosure and refer to the “Removing a water-cooled technology tray from a chassis” on page 139 and “Installing a water-cooled technology tray in a chassis” on page 140 sections.

About this task

To remove a water loop, complete the following steps.

Procedure

1. Remove the cover (see “Removing the cover” on page 142).
2. Remove the cross brace.

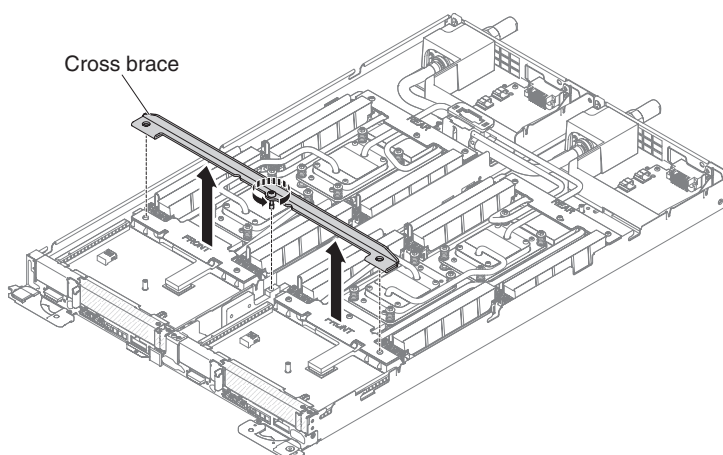


Figure 70. Cross brace removal

3. Remove water loop retention brackets (12 screws).

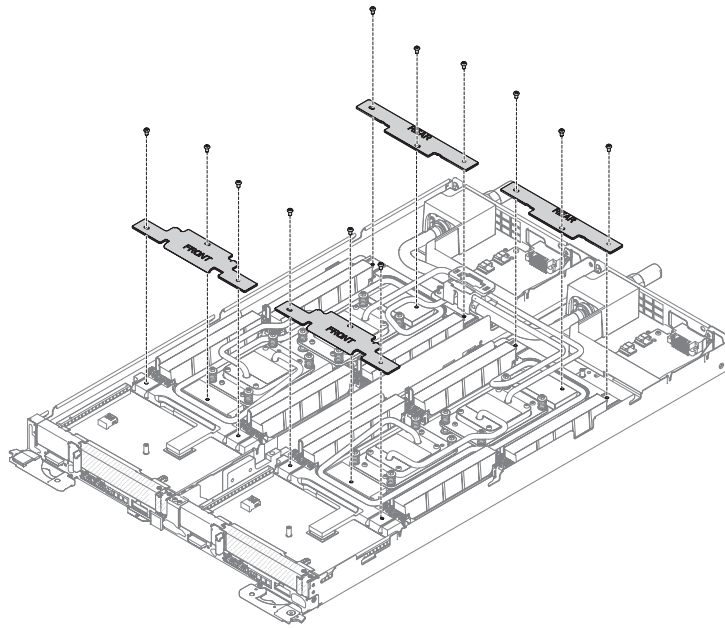


Figure 71. Water Loop retention brackets removal

4. Loosen cold plate captive screws (16 screws).

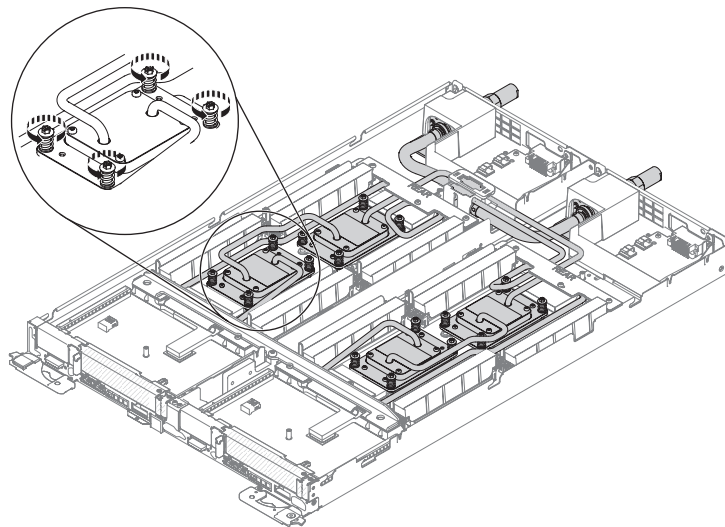


Figure 72. Loosen cold plate captive screws

5. Remove air baffles from rear of the node 2x places.
6. Remove water nozzle retention screws (8 screws).

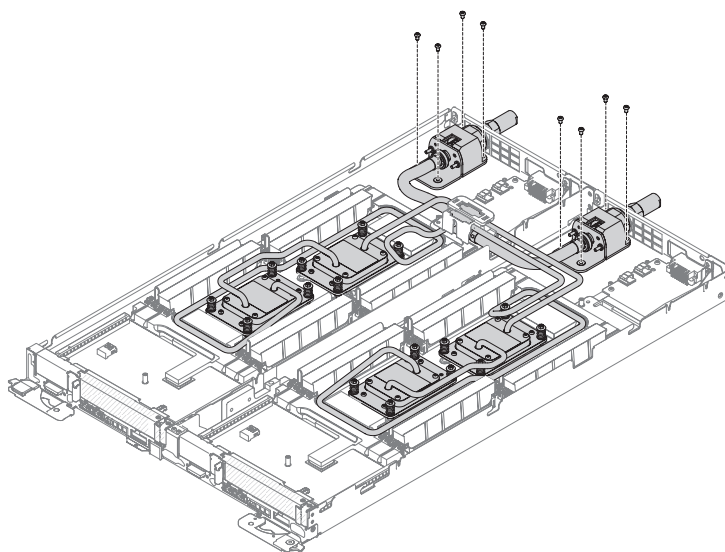


Figure 73. Water nozzle retention screws removal

7. Unhook the water nozzles from the planar tray.

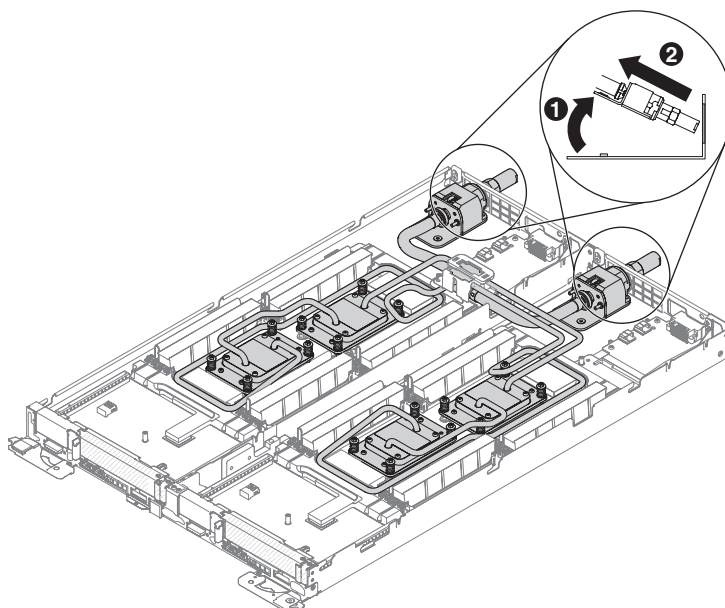


Figure 74. Unhook the water nozzles from the planar tray

8. Remove the water loop assembly from the planar tray.

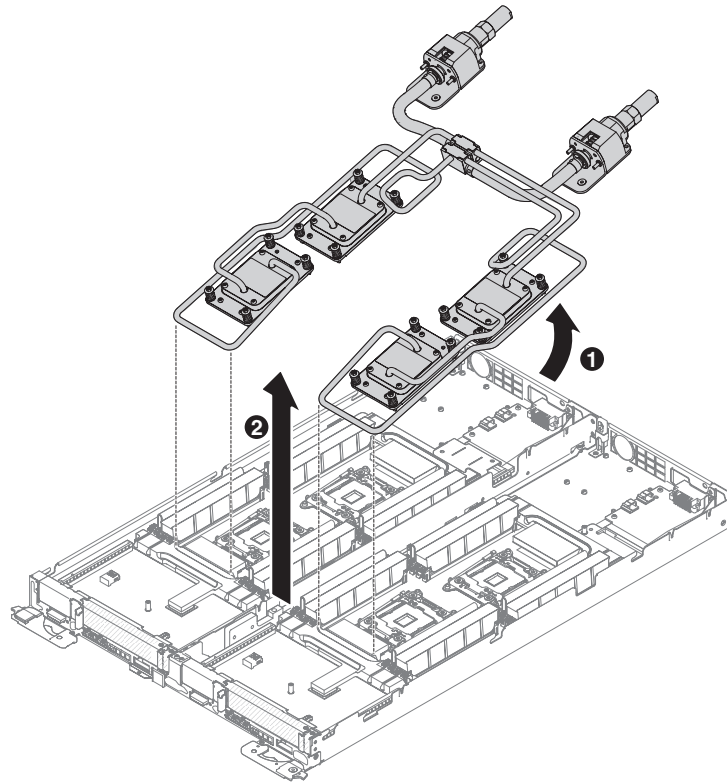


Figure 75. Water loop assembly removal

What to do next

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

Replacing a water loop

Use this information to replace a water loop.

Before you begin

Attention:

- Water loop is to be installed only by trained technicians.
- Make sure the water loop of the microprocessors are properly greased.
- The water loop FRU is packaged with the protective bracket on the top.
- If reusing the water loop apply new grease using the 9 dot previously method.
- Do not set down the water loop after you remove the four plastic covers.
- Do not touch the microprocessor contacts; handle the microprocessor by the edges only. Contaminants on the microprocessor contacts, such as oil from your skin, can cause connection failures between the contacts and the socket.
- The pins on the sockets are fragile. Any damage to the pins might require replacing the system board.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 28.

If you are replacing a server component in the water-cooled technology tray, you need to remove the water-cooled technology tray from the chassis enclosure and refer to the “Removing a water-cooled technology tray from a chassis” on page 139 and “Installing a water-cooled technology tray in a chassis” on page 140 sections.

About this task

To install a water loop, complete the following steps.

Procedure

1. Turn off the server and peripheral devices.
Attention: When you handle static-sensitive devices, take precautions to avoid damage from static electricity.
2. Remove the cover (see “Removing the cover” on page 142).
3. If you are installing a new water loop assembly, remove the plastic protective cover from the bottom of the water loop assembly.
4. Align and place the water loop assembly on the pocket of the wall which is parallel to the front side of the planar tray.

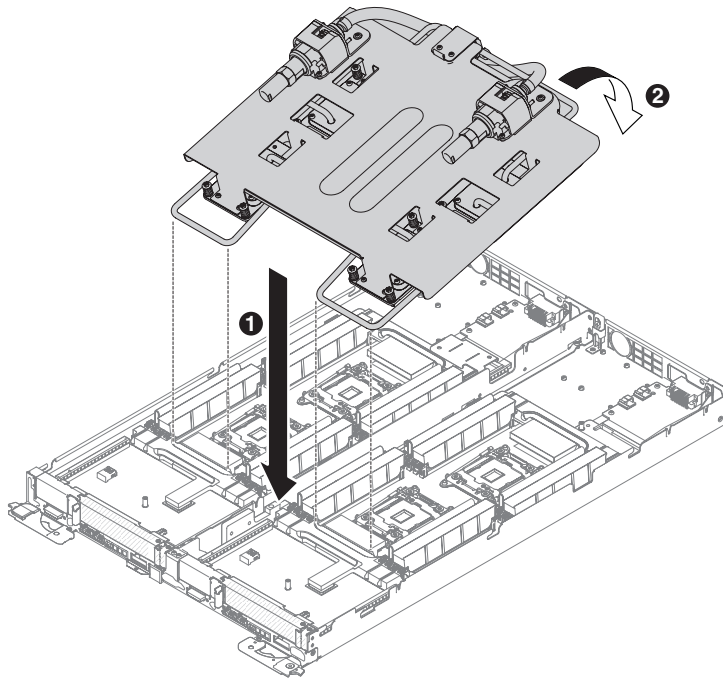


Figure 76. New water loop installation

5. Remove water nozzle retention screws (8 screws) from the water loop.

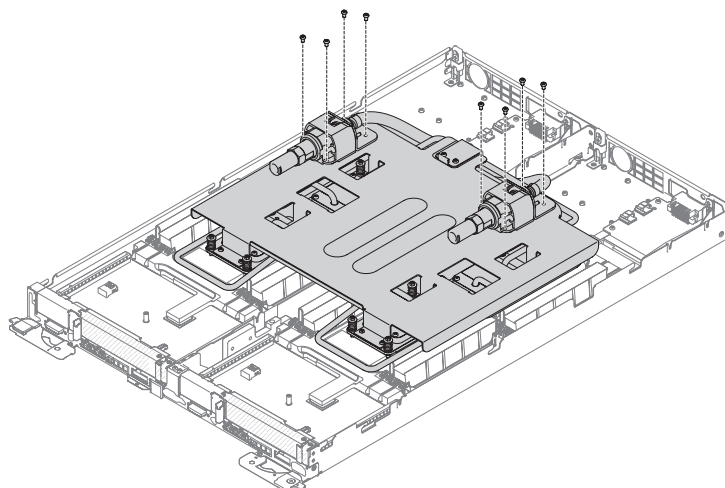


Figure 77. Water nozzle retention screws removal

6. Hook the water nozzles to the planar tray.

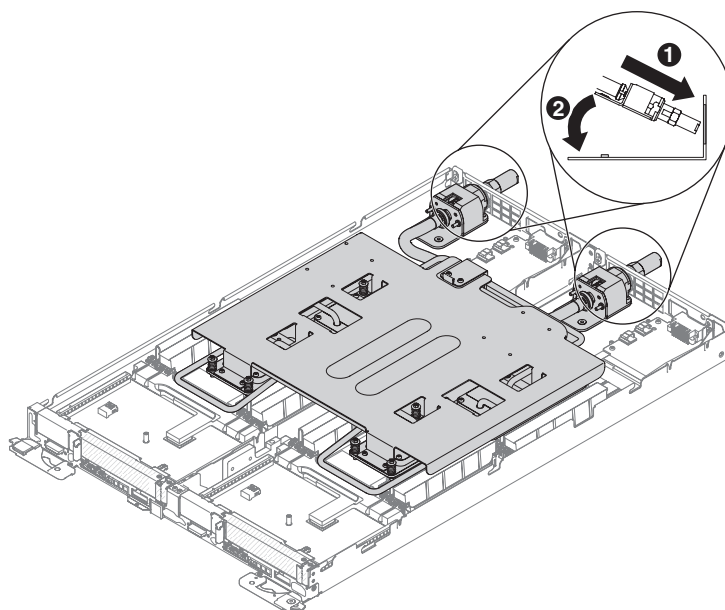


Figure 78. Hook the water nozzles to the planar tray

7. Install the 8 water nozzle retention screws into the planar tray.

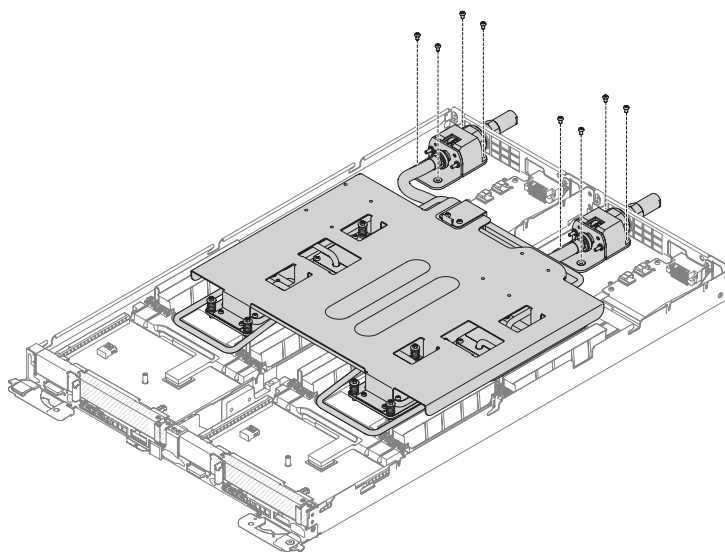


Figure 79. 8 water nozzle retention screws installation

8. Remove the junction block support plate (2 screws).

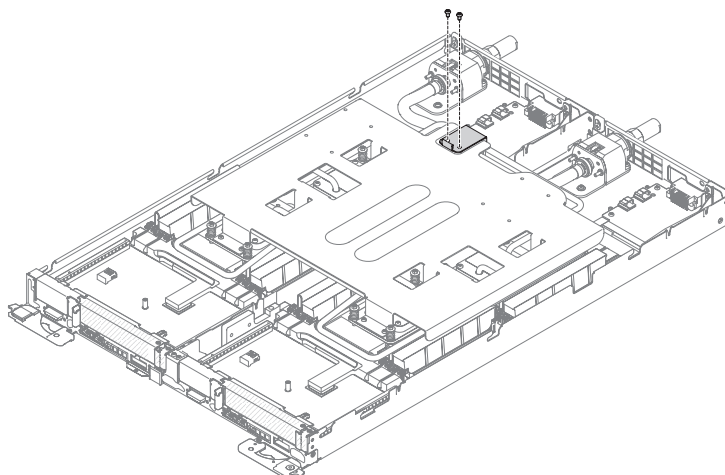


Figure 80. Junction block support plate removal

9. Remove the 12 screws from the water loop protective bracket.

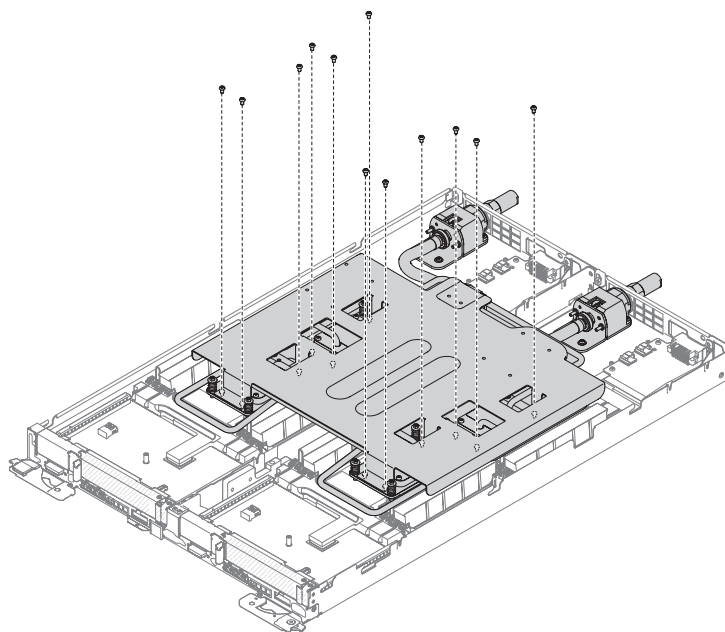


Figure 81. 12 screws from the water loop protective bracket removal

10. Remove the water loop protective bracket.

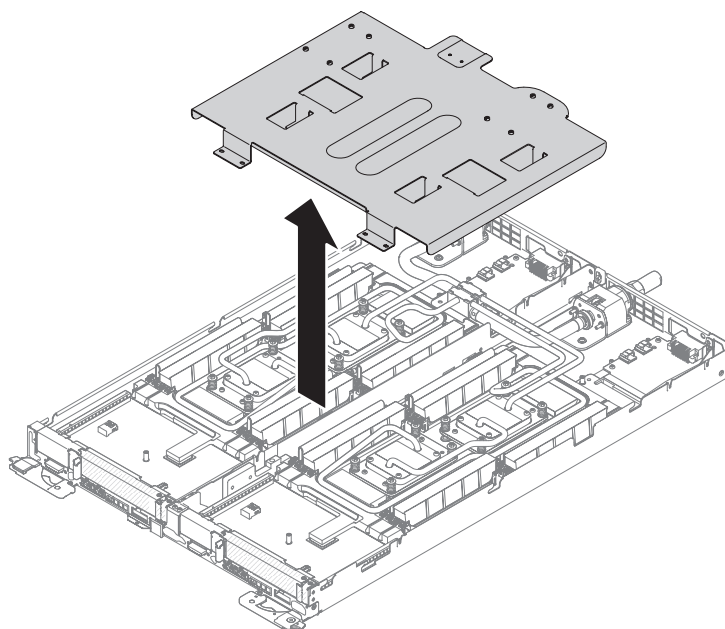


Figure 82. Water loop protective bracket removal

11. Press firmly on the 16 microprocessor screws and tighten them with a screwdriver, alternating among the screws until they are tight. If possible, each screw should be rotated two full rotations at a time. Repeat until the screws are tight. Do not overtighten the screws by using excessive force. If you are using a torque wrench, tighten the screws to 1.0 to 1.2 Newton-meters (Nm) (8.85 to 10.6 inch-pounds).

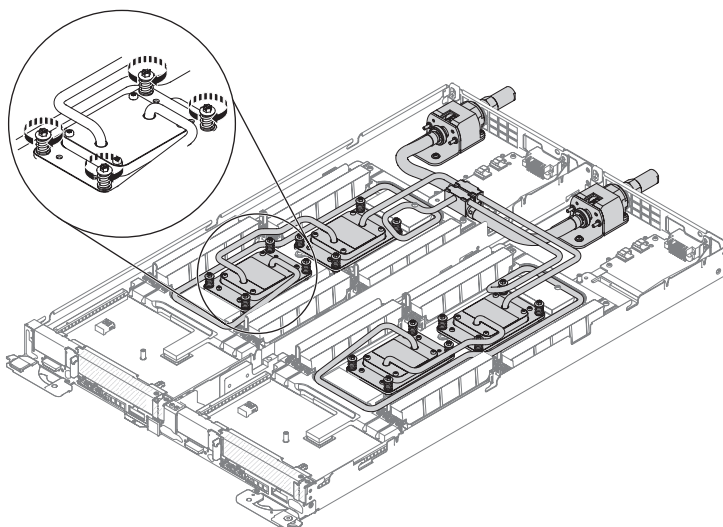


Figure 83. Tighten cold plate captive screws

12. Install the retention brackets into the water loop (12 screws).

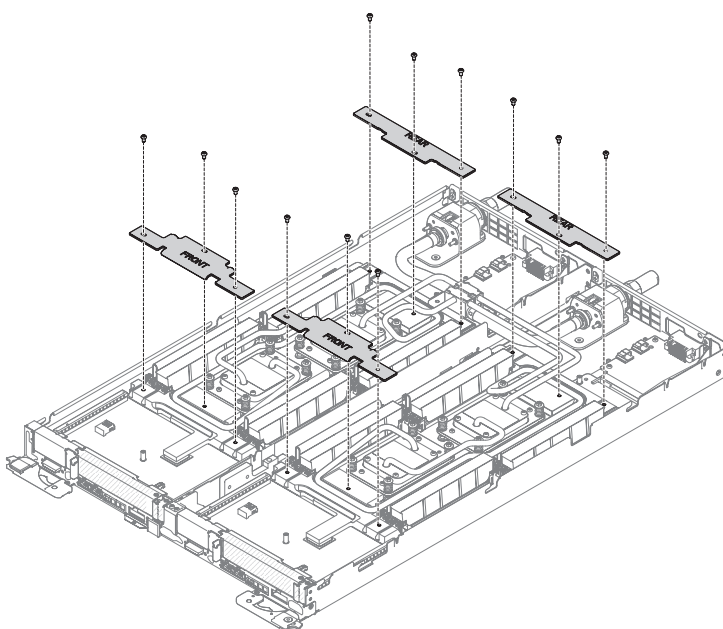


Figure 84. Retention brackets installation

13. Install the junction block retention bracket.

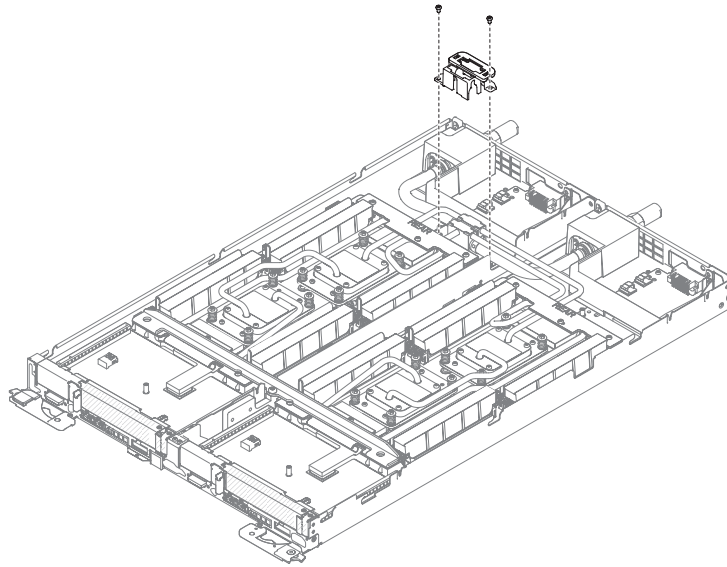


Figure 85. Junction block retention brackets installation

14. Reinstall the cross brace using M4 screw.

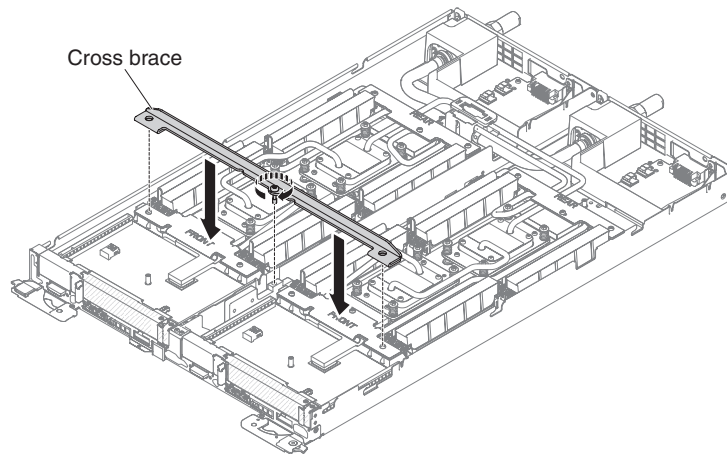


Figure 86. Cross brace installation

15. Install the cover (see “Replacing the cover” on page 143).
16. Slide the server into the rack.
17. Reconnect any cables that you removed.
18. Turn on the peripheral devices and the server.

Removing a microprocessor

Use this information to remove a microprocessor.

Before you begin

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:

- The server supports one Intel land grid array (LGA) 1150 dual-core or quad-core microprocessor. The type, speed, and L3 cache of the microprocessor depends on the server model.
- Read the documentation that comes with the microprocessor to determine whether you have to update the server firmware. To download the most current level of server firmware, go to <http://support.lenovo.com/> and <http://www.ibm.com/support/fixcentral>.
- The microprocessor uses an integrated voltage regulator on the system board.

Attention:

- Microprocessors are to be installed only by trained technicians.
- Do not allow the thermal grease on the microprocessor and heat sink to come in contact with anything. Contact with any surface can compromise the thermal grease and the microprocessor socket.
- Dropping the microprocessor during installation or removal can damage the contacts.
- Do not touch the microprocessor contacts; handle the microprocessor by the edges only. Contaminants on the microprocessor contacts, such as oil from your skin, can cause connection failures between the contacts and the socket.
- The pins on the sockets are fragile. Any damage to the pins might require replacing the system board.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 28.

If you are replacing a server component in the water-cooled technology tray, you need to remove the water-cooled technology tray from the chassis enclosure and refer to the “Removing a water-cooled technology tray from a chassis” on page 139 and “Installing a water-cooled technology tray in a chassis” on page 140 sections.

About this task

To remove a microprocessor, complete the following steps.

Procedure

1. Remove the cover (see “Removing the cover” on page 142).
2. Remove the cross brace.
3. Remove water loop retention brackets (12 screws).

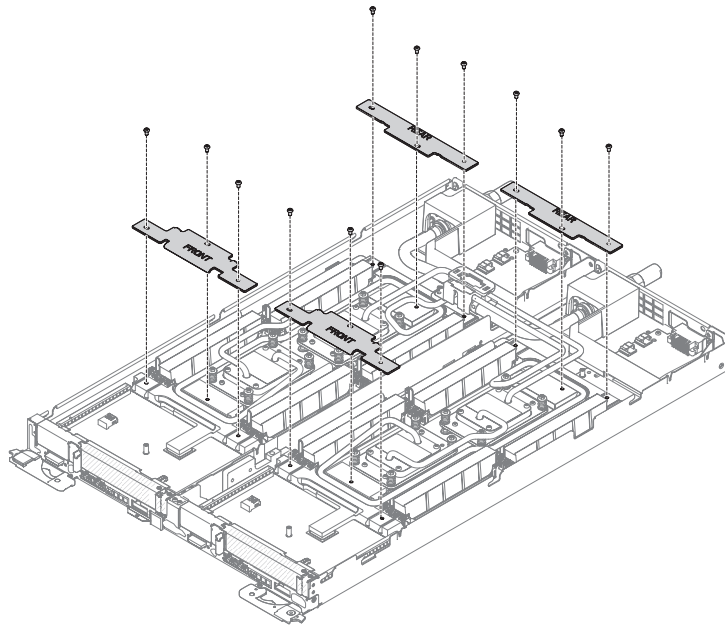


Figure 87. Water Loop retention brackets removal

4. Loosen cold plate captive screws (16 screws).

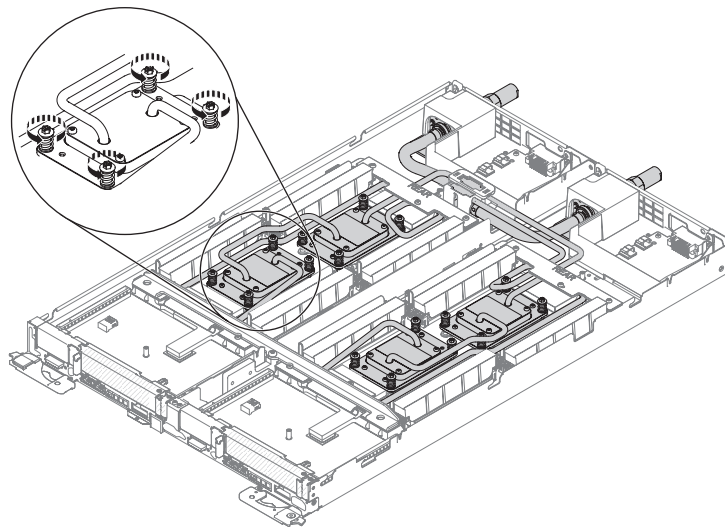


Figure 88. Loosen cold plate captive screws

5. Remove air baffles from rear of the node 2x places.
6. Rotate the rest of the water loop assembly back over the power boards.

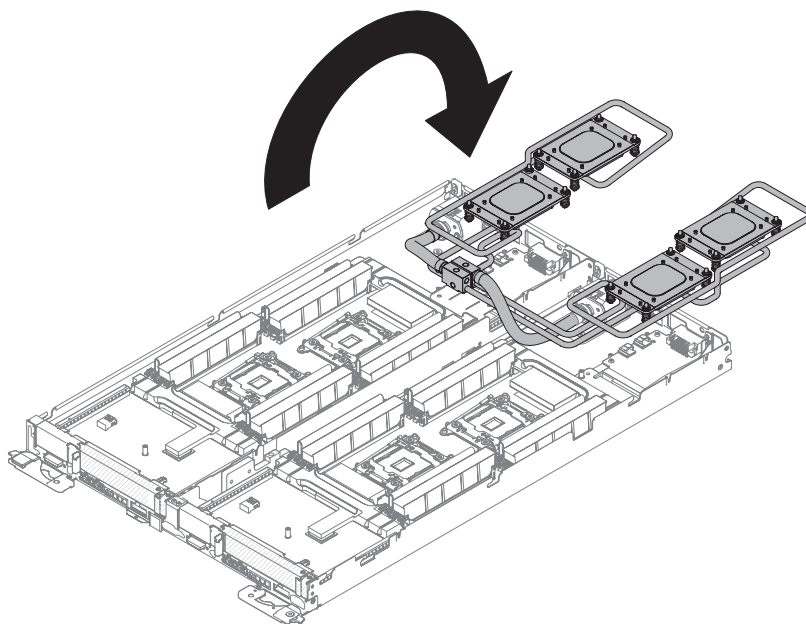


Figure 89. Water loop assembly rotated

7. Open the microprocessor socket release levers and retainer.

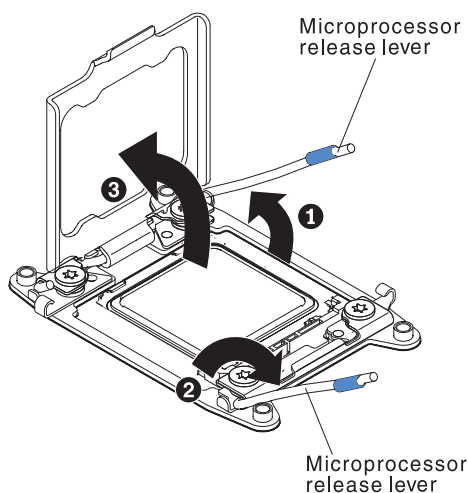


Figure 90. Microprocessor socket levers and retainer disengagement

- 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, **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.

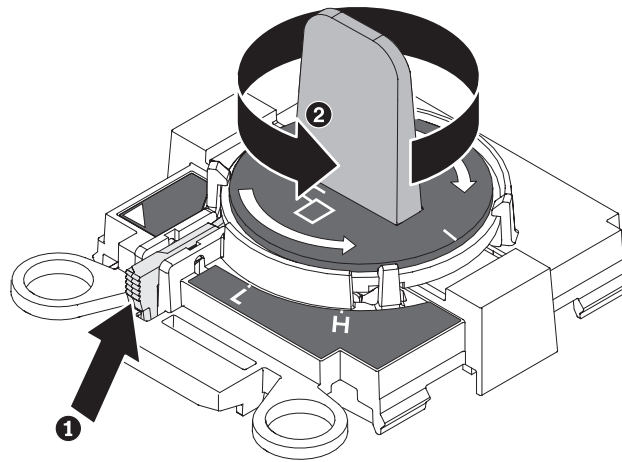


Figure 91. Installation tool handle adjustment

- 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.

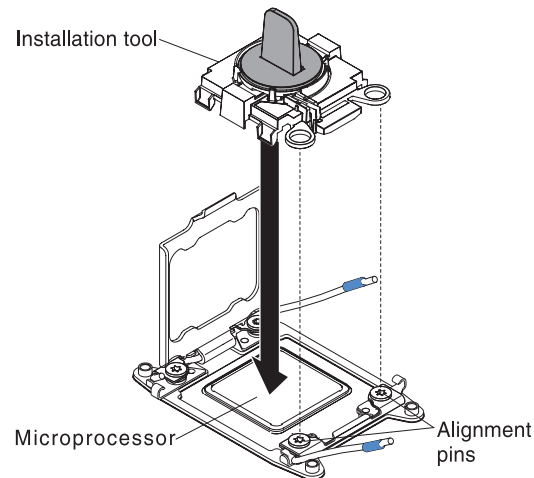


Figure 92. Microprocessor installation

- c. 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.

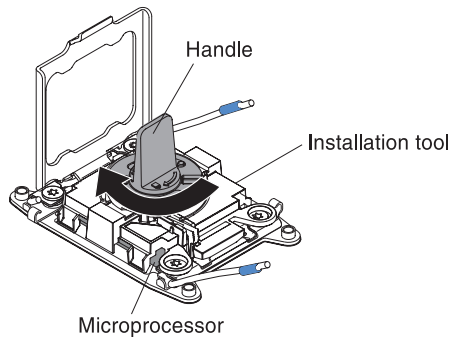


Figure 93. Installation tool handle adjustment

- d. Lift the microprocessor out of the socket.

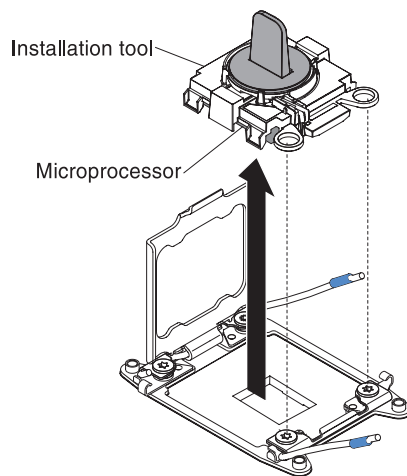


Figure 94. Microprocessor removal

- e. Place the microprocessor on a static-protective surface.

Attention: The pins on the sockets are fragile. Any damage to the pins might require replacing the system board.

What to do next

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

Replacing a microprocessor

Use this information to replace a microprocessor.

Before you begin

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 water loop:

- Microprocessors are to be installed only by trained technicians.

Important: Always use the microprocessor installation tool to install a microprocessor. Failing to use the microprocessor installation tool may damage

the microprocessor sockets on the system board. Any damage to the microprocessor sockets may require replacing the system board.

- The server supports up to four Intel Xeon™ E5-2600 v3 series multi-core microprocessors. See <http://www.ibm.com/systems/info/x86servers/serverproven/compat/us> for a list of supported microprocessors.
- Do not mix microprocessors with different cores in the same server.
- All four microprocessor must always be installed in microprocessor sockets on the system board.
- When microprocessors are installed, the air baffle must be installed to provide proper system cooling.
- When you install the second microprocessor, you must also install additional memory. See “Memory module installation” on page 145 for details about the installation sequence.
- To ensure proper server operation when you install an additional microprocessor, use microprocessors that have the same QuickPath Interconnect (QPI) link speed, integrated memory controller frequency, core frequency, power segment, internal cache size, and type.
- Mixing microprocessors of different stepping levels within the same server model is supported.
- When mixing microprocessors with different stepping levels within the same server model, you do not have to install the microprocessor with lowest stepping level and features in microprocessor socket 1.
- 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://support.lenovo.com/>.
- The microprocessor speeds are automatically set for this server; therefore, you do not have to set any microprocessor frequency-selection jumpers or switches.
- To order an additional optional microprocessor, contact your Lenovo sales representative or Lenovo reseller.

Attention:

- Microprocessors are to be installed only by trained technicians.
- Do not allow the thermal grease on the microprocessor and water loop to come in contact with anything. Contact with any surface can compromise the thermal grease and the microprocessor socket.
- Dropping the microprocessor during installation or removal can damage the contacts.
- Do not touch the microprocessor contacts; handle the microprocessor by the edges only. Contaminants on the microprocessor contacts, such as oil from your skin, can cause connection failures between the contacts and the socket.
- The pins on the sockets are fragile. Any damage to the pins might require replacing the system board.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 28.

If you are replacing a server component in the water-cooled technology tray, you need to remove the water-cooled technology tray from the chassis enclosure and refer to the “Removing a water-cooled technology tray from a chassis” on page 139

and “Installing a water-cooled technology tray in a chassis” on page 140 sections.

About this task

To install a microprocessor and water loop, complete the following steps.

Procedure

1. Turn off the server and peripheral devices.
Attention: When you handle static-sensitive devices, take precautions to avoid damage from static electricity.
2. Remove the cover (see “Removing the cover” on page 142).
3. Open the microprocessor socket release levers and retainer:

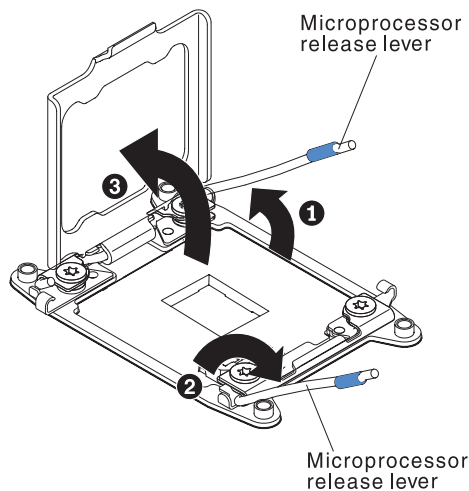


Figure 95. Microprocessor socket levers and retainer disengagement

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

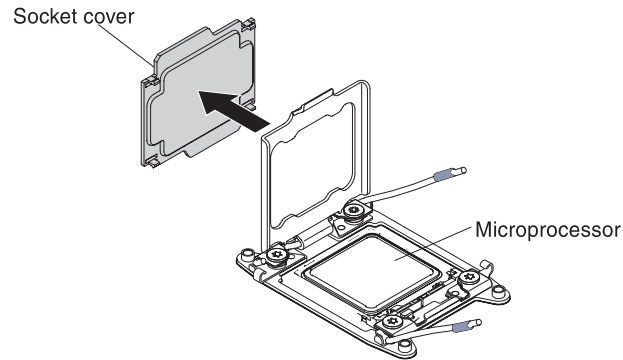


Figure 96. Socket cover removal

Attention: When you handle static-sensitive devices, take precautions to avoid damage from static electricity.

5. Close the microprocessor socket release levers and retainer:

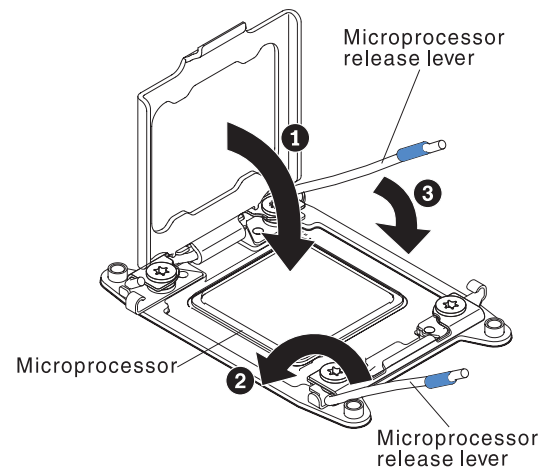


Figure 97. Microprocessor socket levers and retainer engagement

- 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.

Attention:

- If you are installing a new water loop, do not set down the water loop after you remove the plastic covers.
- Do not touch the thermal grease on the bottom of the water loop. Touching the thermal grease will contaminate it.

6. Rotate the water loop back over the power boards.

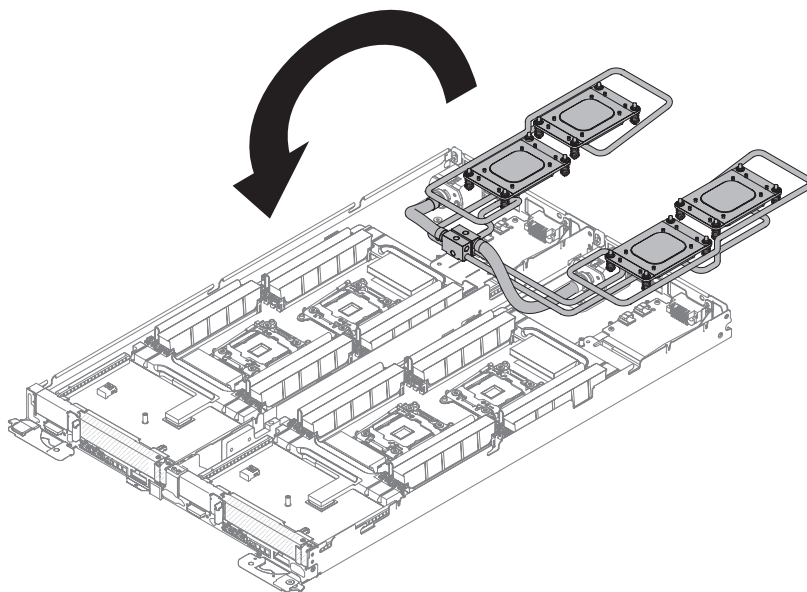


Figure 98. Water loop assembly rotated

7. Install the water loop on the planar tray (see “Replacing a water loop” on page 167).
8. Install the cross brace using M4 screw.
9. Install the cover (see “Replacing the cover” on page 143).
10. Slide the server into the rack.
11. Reconnect any cables that you removed.
12. Turn on the peripheral devices and the server.

Removing the system board

Use this information to remove the system board.

Before you begin

Note:

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 2.1 (IMM2.1) 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 45

Note: You have to reactivate the Features on Demand (FoD) after replacing the system board.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 28.

If you are replacing a server component in the water-cooled technology tray, you need to remove the water-cooled technology tray from the chassis enclosure and refer to the “Removing a water-cooled technology tray from a chassis” on page 139 and “Installing a water-cooled technology tray in a chassis” on page 140 sections.

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

About this task

To remove the system board, complete the following steps.

Procedure

1. Remove the cover (see “Removing the cover” on page 142).
2. Remove the cross brace.

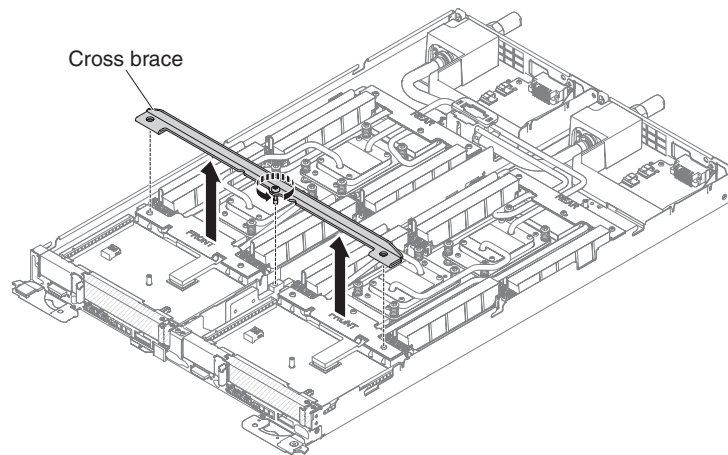


Figure 99. Cross brace removal

3. Remove the interposer filler (1 captive screw).
4. Remove any of the following components that are installed on the system board and put them in a safe, static-protective place:
 - Risers and adapters (see Removing an adapter)
 - DIMMs, DIMM covers, and DIMM fillers (see “Removing a DIMM” on page 144)

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.

- Power distribution board and air baffle (see “Removing the power distribution board” on page 158)
- Loosen and rotate water loop (see “Removing a water loop” on page 164)
- Microprocessors (see “Removing a microprocessor” on page 173)

Note:

- a. Transfer microprocessors into new system board before removing the old system board.
- b. 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.

- c. 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.
5. Remove the 2 jack screws in the front bulkhead that secure the system board to the water-cooled technology tray, and put the screws in a safe place.
6. Carefully hold on to the edges of the system board. Avoid touching the connectors on the system board. Lift and tilt the system board upwards and slightly push the system board away from the front bulkhead. Then carefully lift and remove the system board from the server.

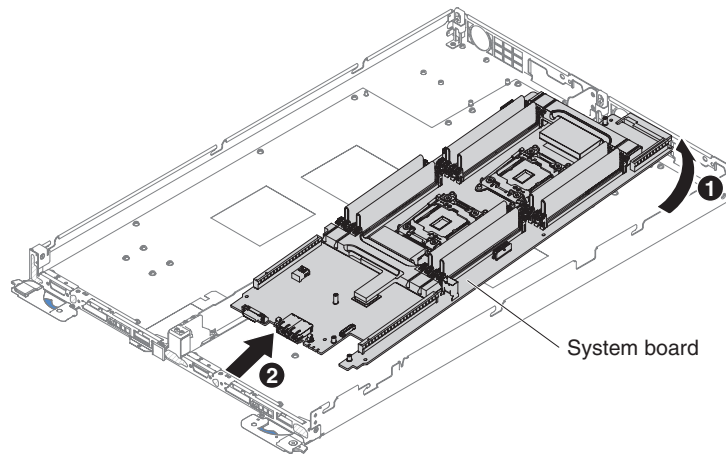


Figure 100. System board removal

Note: When you remove the system board from the server, avoid touching the cable clips on the side of the chassis and the connectors on the system board. Be careful not to damage any surrounding components inside the chassis.

What to do next

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

Attention: Make sure to place the socket cover for the microprocessor socket on the system board before returning the system board.

Replacing the system board

Use this information to replace the system board.

Before you begin

Note:

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 31, “Updating the Universal Unique Identifier (UUID)” on page 50, and “Updating the DMI/SMBIOS data” on page 53.

3. When you replace the system board, make sure that you remove the Integrated Management Module 2.1 (IMM2.1) 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 45
4. Reactivate any Features on Demand features after replacing the system board. Instructions for automating the activation of features and installing activation keys is in the *Lenovo Features on Demand User's Guide*. To download the document, go to <http://www.ibm.com/systems/x/fod/>, log in, and click **Help**.
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.

Read the safety information in “Safety” on page v and “Installation guidelines” on page 28.

If you are replacing a server component in the water-cooled technology tray, you need to remove the water-cooled technology tray from the chassis enclosure and refer to the “Removing a water-cooled technology tray from a chassis” on page 139 and “Installing a water-cooled technology tray in a chassis” on page 140 sections.

About this task

To replace the system board, complete the following steps.

Procedure

1. Touch the static-protective package that contains the system board to any unpainted metal surface on the server; then, remove the system board from the package.

Note: When you are holding or replacing the system board in the server, avoid touching the cable clips on the side of the chassis and the connectors on the system board. Be careful not to damage any surrounding components inside the chassis.

2. Align the system board with the water-cooled technology tray and replace the screws that you removed including the front jack screws for the dongle connector.

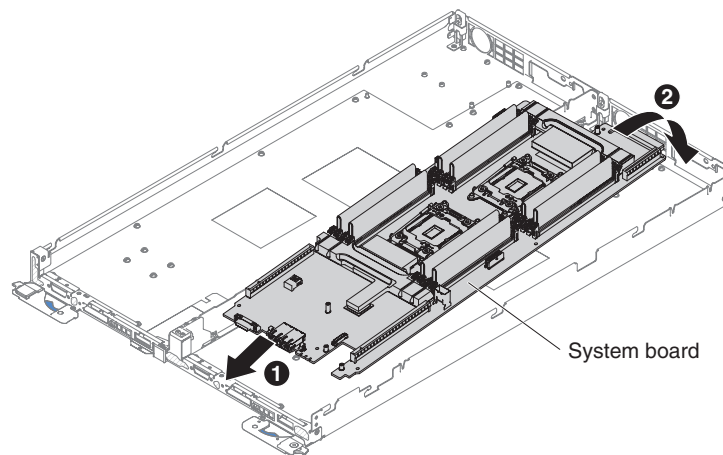


Figure 101. System board installation

3. Install any of the following components that you removed from the system board:

Note: Make sure that none of the server cables are caught under the system board.

- Microprocessor (see “Replacing a microprocessor” on page 178)
 - Rotate water loop (see “Replacing a water loop” on page 167)
 - Power distribution board and air baffle (see “Replacing the power distribution board” on page 161)
 - DIMMs, DIMM fillers, and DIMM covers (see “Installing a DIMM” on page 148)
 - Adapters and risers (see Replacing an adapter)
4. Reinstall the cross brace using M4 screw.

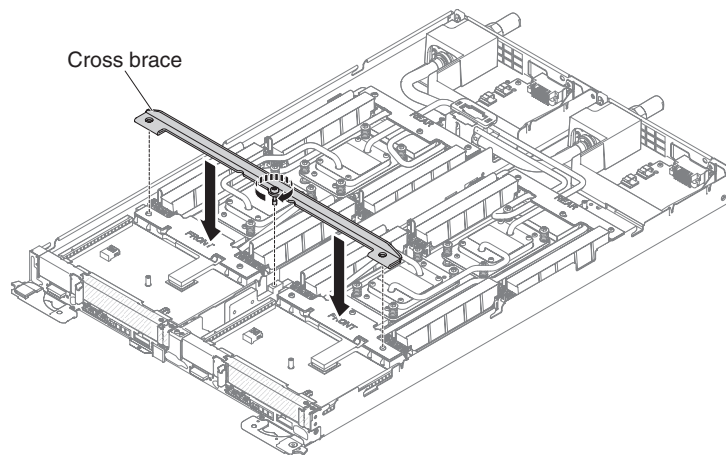


Figure 102. Cross brace installation

5. Reinstall the cover (see “Replacing the cover” on page 143).
6. Slide the water-cooled technology tray into the chassis (see “Installing a water-cooled technology tray in a chassis” on page 140).
7. Start the Setup utility and reset the configuration.
 - a. Set the system date and time.
 - b. Set the power-on password.
 - c. Reconfigure the server.See “Using the Setup utility” on page 35 for details.
8. Either update the server with the latest RAID firmware or restore the pre-existing firmware from a diskette or CD image.
9. Update the UUID (see “Updating the Universal Unique Identifier (UUID)” on page 50).
10. Update the DMI/SMBIOS (see “Updating the DMI/SMBIOS data” on page 53).
11. Reactivate any Features on Demand features.

Removing the chassis midplane

(Trained service technician only) Use these instructions to remove the chassis midplane from the NeXtScale n1200 Enclosure.

Before you begin

Before you remove the chassis midplane, complete the following steps:

1. Read “Safety” on page v and “Installation guidelines” on page 28
2. Record the machine type model, the chassis serial number, and retrieve the existing universally unique identifier (UUID) information from the chassis midplane that you are removing. The procedure for obtaining this data might require different steps depending on the functional state of the chassis.
 - a. Chassis is operating:
 - 1) Log onto the IMM2 and access the command-line interface (CLI). You can access the IMM2 CLI through a direct serial or Ethernet connection to the IMM2, through a Telnet connection to the IP address of the IMM2, or through a Secure Shell (SSH) connection to the IMM2. You must authenticate with the IMM2 before issuing commands.
 - 2) Query for the machine type model, chassis serial number, and the UUID values by using the CLI `info` command. Record this information before you proceed.
 - b. Chassis is not operating:
 - 1) Obtain the chassis serial number and the machine type model from one of the chassis labels. Use this information to query <http://w3-01.ibm.com/pc/entitle/pg2/Service.wss/mts/Lookup> for the UUID.
 - 2) Record the chassis serial number, the machine type model, and the UUID before you proceed.
3. Shut down the operating systems and turn off any compute nodes in the chassis. See the documentation that comes with the compute node for detailed instructions.
4. Open the release handles on the compute nodes and the management node, if one is installed, to disengage the nodes from the chassis midplane connectors.
5. Disconnect the chassis from power.
6. Disconnect all cables from the modules in the rear of the chassis.
7. Remove the components from rear and front of the chassis.

Procedure

To remove the chassis midplane, complete the following steps.

1. Disengage the compute nodes in the front of the chassis.
2. Remove the fan and power controller and power supplies from the chassis.
3. Loosen the three captive screws on the top cover.
4. Rotate the top cover outwards.

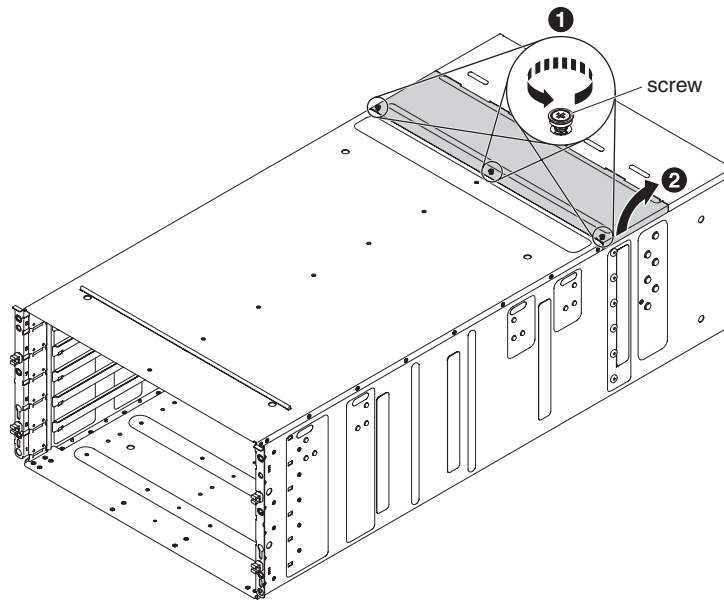


Figure 103. Top cover outward rotation

5. Loosen the three captive screws that secure the chassis midplane to the chassis.
6. Lift up the chassis midplane half way. Put a screwdriver or a stick in the middle of the chassis midplane so your hands are free.

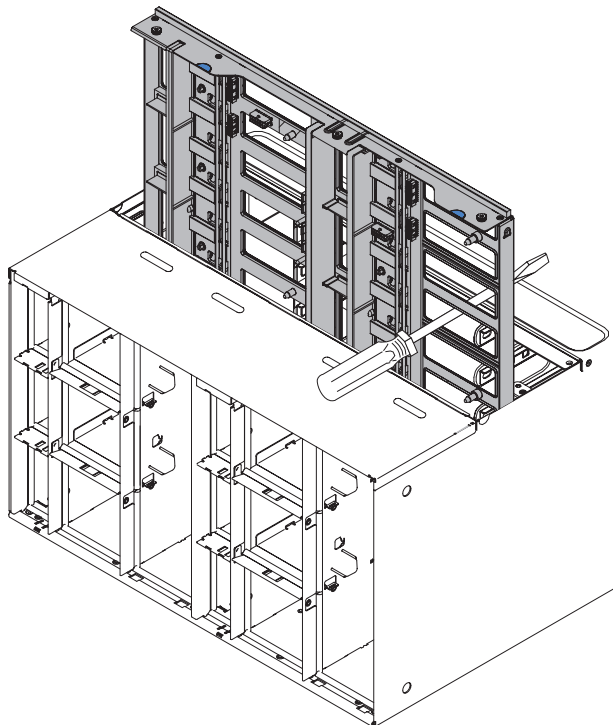


Figure 104. Removal of the chassis midplane from a chassis

7. Unplug the two fan cables on chassis midplane
8. Carefully grasp the chassis midplane and slide it away from the chassis.

Note: Make sure that you do not grasp the connectors on the chassis midplane. You could damage the connectors.

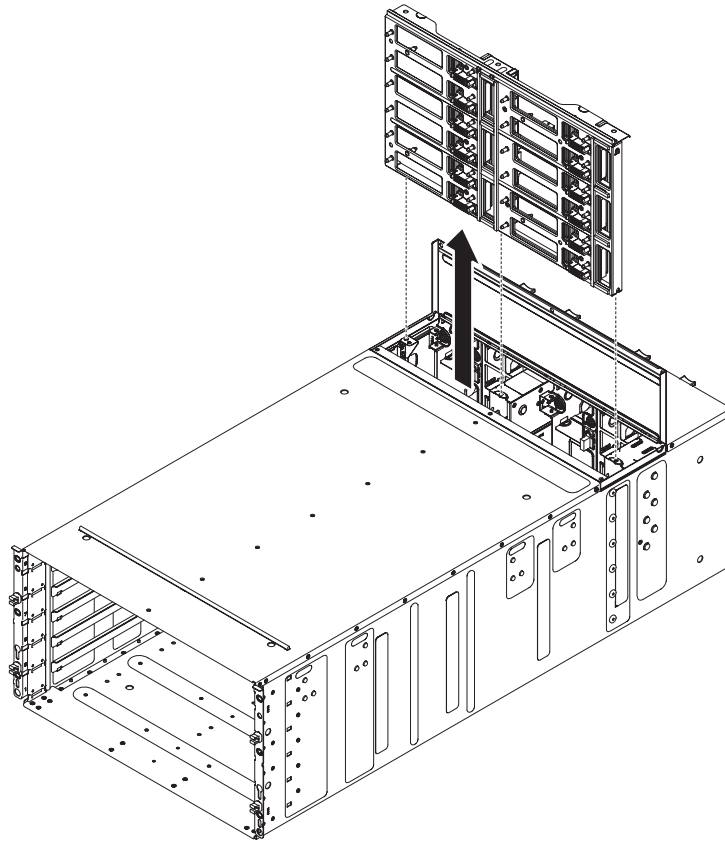


Figure 105. Removal of the chassis midplane from a chassis

Replacing the chassis midplane

(Trained service technician only) Use these instructions to install the chassis midplane in the NeXtScale nx360 M5 water-cooled technology tray.

Procedure

To install the chassis midplane, complete the following steps.

1. Carefully align the chassis midplane with the guide pins in the chassis.

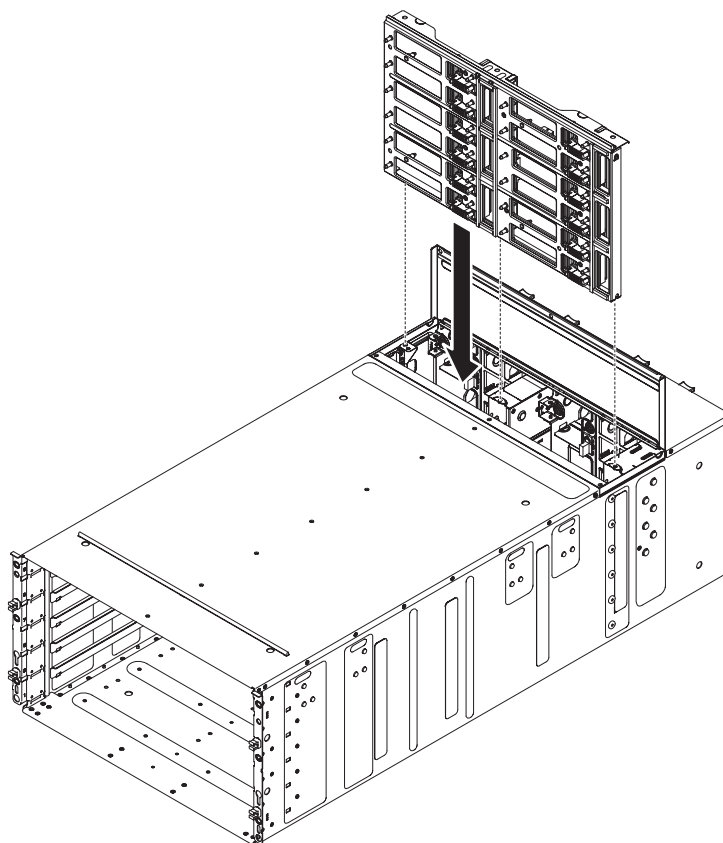


Figure 106. Installation of a chassis midplane into a chassis

2. Slide the chassis midplane half way into the chassis. Put a screwdriver or a stick in the middle of the chassis midplane so your hands are free.

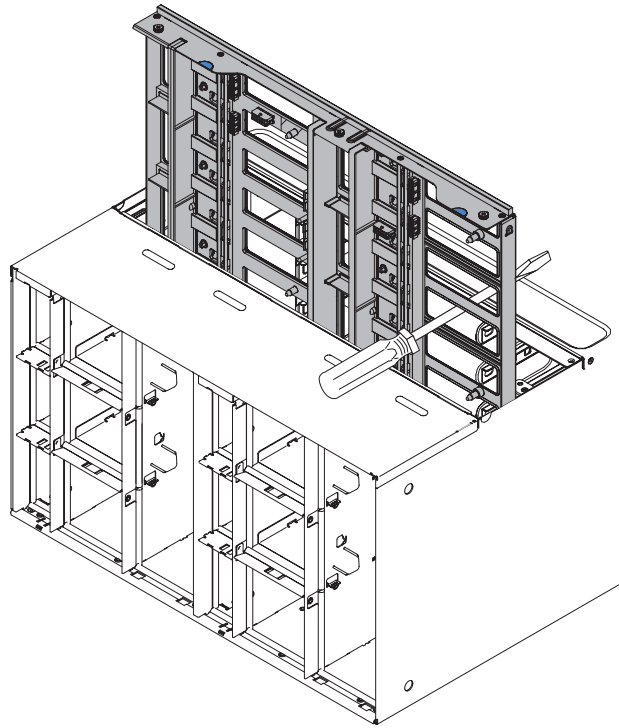


Figure 107. Installation of a chassis midplane into a chassis

Attention:

- You must hold the chassis midplane up against the top inside of the chassis shell and keep the chassis midplane vertical during installation. If the chassis midplane is not inserted correctly, the guide pins can contact the chassis midplane connectors and damage the connector pins.
 - Do not grasp the connectors on the chassis midplane when you install it in the chassis. Touching the connectors might damage the connector pins.
 - Make sure that the fan and power controller cable is out of the way when you slide the chassis midplane into the chassis.
3. Connect the two cables back to fan power connectors and fan signal connectors back to the chassis midplane.
 4. Slide the chassis midplane all the way into the chassis until it stops.
 5. Tighten the three captive screws that secure the chassis midplane to the chassis.
 6. Rotate the top cover inwards.
 7. Tighten the three captive screws on the top cover.

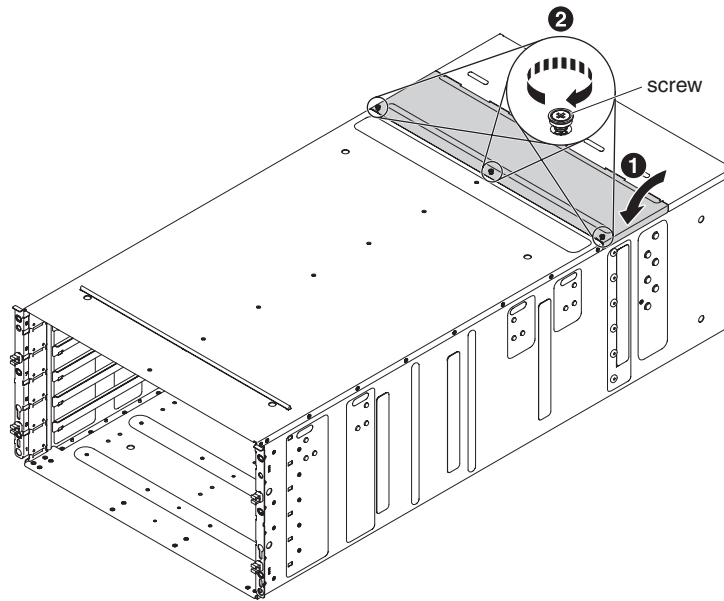


Figure 108. Top cover inward rotation

What to do next

Reassemble the chassis and program the vital product data (VPD) that is stored on the card. Complete the following steps:

1. Reinstall the components that you removed from the rear of the chassis.
2. Connect any cables that you disconnected from the modules in the rear of the chassis.
3. Connect the chassis to power (see n1200 Enclosure Installation and Service Guide).
4. Write down new chassis midplane serial number (for example: Y030UN34B063) and UUID (for example: 2E2B686CC6B311E2907C6EAE8B16A49E).
5. Update the server firmware to the latest level (see n1200 Enclosure Installation and Service Guide).
6. Log in to the web interface (see n1200 Enclosure Installation and Service Guide).
7. Go to **System Information** section, click on the **Midplane VPD** tab.
8. Update the new chassis midplane serial number and UUID onto the fan and power controller (see n1200 Enclosure Installation and Service Guide).
9. Close the release handles on the compute nodes in order to seat the nodes in the chassis midplane connectors.
10. Restart any compute nodes that you shut down. See the documentation that comes with the compute node for detailed instructions.
11. The fan and power controller is powered-on automatically by the IMM2.

Appendix A. Integrated Management Module 2.1 (IMM2.1) error messages

This section details the Integrated Management Module 2.1 (IMM2.1) error messages.

When a hardware event is detected by the IMM2.1 on the server, the IMM2.1 logs that event in the system-event log in the server.

For each event code, the following fields are displayed:

Event identifier

A hexadecimal identifier that uniquely identifies an event or class of events. In this documentation, the event identifiers are prefixed with 0x and followed by eight characters.

Event description

The logged message string that appears for an event. When the event string is displayed in the event log, information such as a specific component is displayed. In this documentation, that additional information appears as variables, such as [arg1] or [arg2].

Explanation

Provides additional information to explain why the event occurred.

Severity

An indication of the level of concern for the condition. In the system-event log, severity is abbreviated to the first character. The following severities can be displayed.

Info: The event was recorded for audit purposes, usually a user action or a change of states that is normal behavior.

Warning:

The event is not as severe as an error, but if possible, the condition should be corrected before it becomes an error. It might also be a condition that requires additional monitoring or maintenance.

Error: The event is a failure or critical condition that impairs service or an expected function.

Alert Category

Similar events are grouped together in categories. The alert category is in the following format:

severity - device

severity is one of the following severity levels:

- **Critical:** A key component in the server is no longer functioning.
- **Warning:** The event might progress to a critical level.
- **System:** The event is the result of a system error or a configuration change.

device is the specific device in the server that caused the event to be generated.

Serviceable

Specifies whether user action is required to correct the problem.

CIM Information

Provides the prefix of the message ID and the sequence number that is used by the CIM message registry.

SNMP Trap ID

The SNMP trap ID that is found in the SNMP alert management information base (MIB).

Automatically contact Service

If this field is set to **Yes**, and you have enabled Electronic Service Agent™ (ESA), Lenovo Support will be notified automatically if the event is generated.

While you wait for Lenovo Support to call, you can perform the recommended actions for the event.

User response

Indicates what actions you should perform to solve the event.

Perform the steps listed in this section in the order shown until the problem is solved. After you perform all of the actions that are described in this field, if you cannot solve the problem, contact Lenovo Support.

Note: This list includes error codes and messages that might not apply to this machine type and model.

The following is the list of IMM2.1 error messages and suggested actions to correct the detected server problems. For more information about IMM2.1, see the *Integrated Management Module 2.1 User's Guide* at <http://www.ibm.com/support/entry/portal/docdisplay?lnocid=migr-5086346>.

**40000001-00000000 Management Controller [arg1]
Network Initialization Complete. ()**

Explanation: This message is for the use case where a Management Controller network has completed initialization.

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.

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.

**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.

Severity: Error

Alert Category: System - SSL certification

Serviceable: No

**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.

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.

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]. 0

Explanation: This message is for the use case where a user modifies the Ethernet Port MTU setting.

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]. 0

Explanation: This message is for the use case where a user modifies the Ethernet Port MAC address setting.

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]. 0

Explanation: This message is for the use case where a user enables or disabled the ethernet interface.

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]. 0

Explanation: This message is for the use case where user modifies the Hostname of a Management Controller.

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]. 0

Explanation: This message is for the use case where user modifies the IP address of a Management Controller.

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]. 0

Explanation: This message is for the use case where a user modifies the IP subnet mask of a Management Controller.

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.

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.

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.

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.

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.

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.

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]. 0

Explanation: This message is for the use case where a user has failed to log in to a Management Controller from the Legacy CLI.

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]. 0

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.

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]. 0

Explanation: This message is for the use case where a user has failed to log in to a Management Controller from a telnet session.

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]. 0

Explanation: This message is for the use case where a Management Controller Event Log on a system is cleared by a user.

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]. 0

Explanation: This message is for the use case where a Management Controller reset is initiated by a user.

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]. 0

Explanation: This message is for the use case where a Management Controller IP address and configuration has been assigned by the DHCP server.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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] configuration 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.

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).

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.

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.

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.

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]. 0

Explanation: This message is for the use case when an implementation has detected a Platform Watchdog Timer Expired

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]. 0

Explanation: This message is for the use case where a user has generated a Test Alert.

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]. 0

Explanation: This message is for the use case where a user has failed to log in to a Management Controller from SSH.

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. 0

Explanation: This message is for the use case where a specific type of firmware mismatch has been detected.

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]. 0

Explanation: Domain name set by user

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]. 0

Explanation: Domain source changed by user

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]. 0**

Explanation: DDNS setting changed by user

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]. 0**

Explanation: DDNS registration and values

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] . 0

Explanation: IPv6 protocol is enabled by user

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] . 0

Explanation: IPv6 protocol is disabled by user

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]. 0**

Explanation: IPv6 static address assignment method is enabled by user

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]. 0**

Explanation: IPv6 DHCP assignment method is enabled by user

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]. 0**

Explanation: IPv6 statless auto-assignment method is enabled by user

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]. 0

Explanation: IPv6 static assignment method is disabled by user

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]. 0

Explanation: IPv6 DHCP assignment method is disabled by user

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]. 0

Explanation: IPv6 statless auto-assignment method is disabled by user

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] . 0

Explanation: IPv6 Link Local address is active

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] . 0

Explanation: IPv6 Static address is active

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]. 0

Explanation: IPv6 DHCP-assigned address is active

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]. 0

Explanation: A user modifies the IPv6 static address of a Management Controller

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 DHCPv6 server fails to assign an IP address to a Management Controller.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.

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

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

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

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

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

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

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

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

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

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

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],
OSWatchdogTimeout=[arg3],
EnableLoaderWatchdog=[arg4],
LoaderTimeout=[arg5]. ()**

Explanation: A user configures Server Timeouts

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

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

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

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],
MaxumLoginFailures=[arg7],
LockoutAfterMaxFailures=[arg8],
MinimumDifferentCharacters=[arg9],
DefaultIDExpired=[arg10],
ChangePasswordFirstAccess=[arg11]. ()

Explanation: A user changes the Global Login Account Security Settings to Legacy

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

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

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

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

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 privileges assigned

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

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

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

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

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.

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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 occurred

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

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

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

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

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

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

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.

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.

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.

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.

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.

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

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.

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. (CMOS Battery)

Explanation: This message is for the use case when an implementation has detected a Lower Critical sensor going low has asserted.

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)

SysBrd 12V : SysBrd 3.3V : SysBrd 5V :

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.

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.

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.

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.

80010701-3702ffff **Numeric sensor**
[NumericSensorElementName] going high (upper non-critical) has asserted. (PIB Ambient Temp)

Explanation: This message is for the use case when an

implementation has detected an Upper Non-critical sensor going high has asserted.

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.

80010701-3703ffff **Numeric sensor**
[NumericSensorElementName] going high (upper non-critical) has asserted. (HDD Inlet Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

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.
-

80010701-3704ffff Numeric sensor
[NumericSensorElementName] going
high (upper non-critical) has asserted.
(PCI Riser 1 Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

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.

80010701-3705ffff Numeric sensor
[NumericSensorElementName] going
high (upper non-critical) has asserted.
(PCI Riser 2 Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

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.

80010701-3706ffff Numeric sensor
[NumericSensorElementName] going
high (upper non-critical) has asserted.
(GPU Outlet Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

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.

80010701-3707ffff Numeric sensor
[NumericSensorElementName] going
high (upper non-critical) has asserted.
(HDD Outlet Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

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.

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.

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. 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.

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.

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. 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. (Trained technician only) Replace system board.

80010901-3702ffff Numeric sensor
 [NumericSensorElementName] going
 high (upper critical) has asserted. (PIB
 Ambient Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

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. 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. (Trained technician only) Replace system board.

80010901-3703ffff Numeric sensor
 [NumericSensorElementName] going
 high (upper critical) has asserted. (HDD
 Inlet Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

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. 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 HDD is installed correctly.
4. (Trained technician only) Replace system board.

80010901-3704ffff Numeric sensor
[NumericSensorElementName] going
high (upper critical) has asserted. (PCI
Riser 1 Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

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. 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. (Trained technician only) Replace system board.

80010901-3705ffff Numeric sensor
[NumericSensorElementName] going
high (upper critical) has asserted. (PCI
Riser 2 Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

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. 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. (Trained technician only) Replace system board.

80010901-3706ffff Numeric sensor
[NumericSensorElementName] going
high (upper critical) has asserted. (GPU
Outlet Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

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. 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 GPU is installed correctly.
4. (Trained technician only) Replace system board.

80010901-3707ffff Numeric sensor
[NumericSensorElementName] going
high (upper critical) has asserted. (HDD
Outlet Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

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. 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 HDD is installed correctly.
4. (Trained technician only) Replace system board.

80010902-0701ffff Numeric sensor
[NumericSensorElementName] going
high (upper critical) has asserted.
(SysBrd 12V)

Explanation: This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

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)

SysBrd 3.3V : SysBrd 5V :

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.

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.

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.

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. (Trained technician only) Replace system board.

80010b01-3702ffff Numeric sensor
[NumericSensorElementName] going
high (upper non-recoverable) has
asserted. (PIB Ambient Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

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. (Trained technician only) Replace system board.
-

80010b01-3703ffff Numeric sensor
[NumericSensorElementName] going
high (upper non-recoverable) has
asserted. (HDD Inlet Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

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 HDD is installed correctly
4. (Trained technician only) Replace system board.

80010b01-3704ffff Numeric sensor
[NumericSensorElementName] going
high (upper non-recoverable) has
asserted. (PCI Riser 1 Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

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. (Trained technician only) Replace system board.

80010b01-3705ffff Numeric sensor
[NumericSensorElementName] going
high (upper non-recoverable) has
asserted. (PCI Riser 2 Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

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. (Trained technician only) Replace system board.

80010b01-3706ffff Numeric sensor
[NumericSensorElementName] going
high (upper non-recoverable) has
asserted. (GPU Outlet Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

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 GPU is installed correctly.
4. (Trained technician only) Replace system board.

80010b01-3707ffff Numeric sensor

[NumericSensorElementName] going high (upper non-recoverable) has asserted. (HDD Outlet Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

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 HDD is installed correctly.
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.

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.

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.

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.

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. Information only, recommend to replace authorized DIMM.

8003010d-2b81ffff Sensor [SensorElementName] has asserted. (FDIMM Config)

Explanation: This message is for the use case when an implementation has detected a Sensor has asserted.

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. Please check supported component list.

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.

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. Reflash primary code.
2. Disconnect power cord and reconnect.

3. (Trained technician only) please replace system board if the problem still exist.

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.

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.

SMM Monitor :

8005010d-2b81ffff Sensor [SensorElementName] has indicated limit exceeded. (FDIMM TempLimit)

Explanation: This message is for the use case when an implementation has detected a Sensor limit was exceeded.

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and ID: 0512

SNMP Trap ID:

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.

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. 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).

8007010d-0b01ffff Sensor [SensorElementName] has transitioned from normal to non-critical state. (RAID #1 Volume)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to non-critical from normal.

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. 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)

8007010d-0b07ffff Sensor [SensorElementName] has transitioned from normal to non-critical state. (RAID #7 Volume)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to non-critical from normal.

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. 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)

8007010d-2b81ffff Sensor [SensorElementName] has transitioned from normal to non-critical state. (FDIMM Warranty)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to non-critical from normal.

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.

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.

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.

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.

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.

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.

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)

CPU1 VR OverTemp :

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.

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)

CPU2 VR OverTemp :

80070201-1101ffff Sensor [SensorElementName] has transitioned to critical from a less severe state. (PCI 1 Temp)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

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)

80070201-1102ffff Sensor [SensorElementName] has transitioned to critical from a less severe state. (PCI 2 Temp)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

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)

80070201-1103ffff Sensor [SensorElementName] has transitioned to critical from a less severe state. (PCI 3 Temp)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

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)

80070201-1104ffff Sensor [SensorElementName] has transitioned to critical from a less severe state. (PCI 4 Temp)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

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)

80070201-2c01ffff Sensor [SensorElementName] has transitioned to critical from a less severe state. (Exlom Temp)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

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.

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.

80070202-1501ffff Sensor [SensorElementName] has transitioned to critical from a less severe state. (PIB Fault)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

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.

80070202-1502ffff Sensor [SensorElementName] has transitioned to critical from a less severe state. (PDB Fault)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

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.

8007020d-0b01ffff Sensor [SensorElementName] has transitioned to critical from a less severe state. (RAID #1 Volume)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

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. 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)

8007020d-0b07ffff Sensor [SensorElementName] has transitioned to critical from a less severe state. (RAID #7 Volume)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

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. 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)

8007020d-2b81ffff Sensor [SensorElementName] has transitioned to critical from a less severe state. (FDIMM Warranty)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

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.

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.

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.

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.

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.

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.

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
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.

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
5. (Trained technician only) Replace microprocessor 2 expansion board.

80070228-2e01ffff Sensor [SensorElementName] has transitioned to critical from a less severe state. (ME Error)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

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 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.

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)

CPU1 VR OverTemp :

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.

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)

CPU2 VR OverTemp :

80070301-1101ffff Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (PCI 1 Temp)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

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)

80070301-1102ffff Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (PCI 2 Temp)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

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)

80070301-1103ffff Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (PCI 3 Temp)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

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)

80070301-1104ffff Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (PCI 4 Temp)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

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. (Exlom Temp)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

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)

8007030d-0b01ffff Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (RAID #1 Volume)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

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:

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)

8007030d-0b07ffff Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (RAID #7 Volume)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

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

8007030d-2b81ffff Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (FDIMM Warranty)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

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

80070319-2201ffff Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (S3 Resume Fail)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

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

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.

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.

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.

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.

800a030d-2b81ffff Sensor [SensorElementName] has indicated a on-line state. (FDIMM Mode)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to on-line.

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and ID: 0546

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

800a040d-2b81ffff Sensor [SensorElementName] has indicated an off-line state. (FDIMM Mode)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to off-line.

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and ID: 0548

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

800a060d-2b81ffff Sensor [SensorElementName] has indicated a degraded state. (FDIMM Mode)

Explanation: This message is for the use case when an implementation has detected a Sensor transitioned to a degraded state.

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and ID: 0552

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

800b010c-2581ffff Redundancy Lost for [RedundancySetElementName] has asserted. (Backup Memory)

Explanation: This message is for the use case when Redundancy Lost has asserted.

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.
-

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.

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.
-

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.

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.

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. Update the latest level of system firmware and device drivers are installed for all adapters and standard devices, such as UEFI, IMM Ethernet, 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. Run the DSA program.
3. Reseat the adapter.
4. Replace the adapter.
5. (Trained technician only) Replace microprocessor n. (n = microprocessor number)
6. (Trained technician only) Replace the system board.

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.

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. Update the latest level of system firmware and device drivers are installed for all adapters and standard devices, such as UEFI, IMM Ethernet, 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. Run the DSA program.
3. Reseat the adapter.
4. Replace the adapter.
5. (Trained technician only) Replace microprocessor n. (n = microprocessor number)
6. (Trained technician only) Replace the system board.

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.

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-0401ffff The Drive [StorageVolumeElementName] has been added. (Comput HDD0 Pres)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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. (Comput HDD1 Pres)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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. (Comput HDD4 Pres)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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. (Comput HDD5 Pres)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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. (Comput HDD6 Pres)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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. (Comput HDD7 Pres)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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. (1U Stg HDD0 Pres)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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. (1U Stg HDD1 Pres)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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. (1U Stg HDD2 Pres)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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. (1U Stg HDD3 Pres)****Explanation:** This message is for the use case when an implementation has detected a Drive has been Added.**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. (1U Stg HDD4 Pres)****Explanation:** This message is for the use case when an implementation has detected a Drive has been Added.**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. (1U Stg HDD5 Pres)****Explanation:** This message is for the use case when an implementation has detected a Drive has been Added.**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. (1U Stg HDD6 Pres)****Explanation:** This message is for the use case when an implementation has detected a Drive has been Added.**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-040effff The Drive**[StorageVolumeElementName] has been added. (1U Stg HDD7 Pres)****Explanation:** This message is for the use case when an implementation has detected a Drive has been Added.**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-0410ffff The Drive**[StorageVolumeElementName] has been added. (SDHV Drive 1)****Explanation:** This message is for the use case when an implementation has detected a Drive has been Added.**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-0411ffff The Drive**[StorageVolumeElementName] has been added. (SDHV Drive 2)****Explanation:** This message is for the use case when an implementation has detected a Drive has been Added.**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-0412ffff The Drive
[StorageVolumeElementName] has been added. (SDHV Drive 3)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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-0413ffff The Drive
[StorageVolumeElementName] has been added. (SDHV Drive 4)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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-0414ffff The Drive
[StorageVolumeElementName] has been added. (SDHV Drive 5)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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-0415ffff The Drive
[StorageVolumeElementName] has been added. (SDHV Drive 6)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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-0416ffff The Drive
[StorageVolumeElementName] has been added. (SDHV Drive 7)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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-0417ffff The Drive
[StorageVolumeElementName] has been added. (SDHV Drive 8)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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-0418ffff The Drive
[StorageVolumeElementName] has been added. (SDHV Drive 9)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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-0419ffff The Drive
[StorageVolumeElementName] has been added. (SDHV Drive 10)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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-041affff The Drive
[StorageVolumeElementName] has been added. (SDHV Drive 11)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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-041bffff The Drive
[StorageVolumeElementName] has been added. (SDHV Drive 12)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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-041cffff The Drive
[StorageVolumeElementName] has been added. (SDHV Drive 13)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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-041dffff The Drive
[StorageVolumeElementName] has been added. (SDHV Drive 14)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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-041effff The Drive
[StorageVolumeElementName] has been added. (SDHV Drive 15)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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-041ffff The Drive
[StorageVolumeElementName] has been added. (SDHV Drive 16)

Explanation: This message is for the use case when an implementation has detected a Drive has been Added.

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.

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: 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-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.

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: 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-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.

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.

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(POST) error code for this event can be found in the logged IMM message text. Please refer to the UEFI(POST) error code in the "UEFI(POST) error code" section of the Information Center for the appropriate user response. Firmware Error : Sys Boot Status :

806f000f-220107ff The System

**[ComputerSystemElementName]
encountered firmware error -
unrecoverable keyboard failure. (ABR
Status)**

Explanation: This message is for the use case when an implementation has detected that System Firmware Error Unrecoverable Keyboard failure has occurred.

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.

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 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-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.

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.

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 Information 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.

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.

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.

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.

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.

806f0021-2582ffff 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.

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.

One of PCI Error :

806f0021-2c01ffff Fault in slot
[PhysicalConnectorSystemElementName]
on system
[ComputerSystemElementName]. (Exlom
Fault)

Explanation: This message is for the use case when an implementation has detected a Fault in a slot.

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 Raid Fault :

806f0021-3001ffff Fault in slot
[PhysicalConnectorSystemElementName]
on system
[ComputerSystemElementName]. (PCI 1)

Explanation: This message is for the use case when an implementation has detected a Fault in a slot.

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.

806f0021-3002ffff 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.

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.

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.

806f0021-3004ffff Fault in slot
[PhysicalConnectorSystemElementName]
on system
[ComputerSystemElementName]. (PCI 4)

Explanation: This message is for the use case when an implementation has detected a Fault in a slot.

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.

806f0021-3005ffff Fault in slot
[PhysicalConnectorSystemElementName]
on system
[ComputerSystemElementName]. (PCI 5)

Explanation: This message is for the use case when an implementation has detected a Fault in a slot.

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.

806f0021-3006ffff Fault in slot
[PhysicalConnectorSystemElementName]
on system
[ComputerSystemElementName]. (PCI 6)

Explanation: This message is for the use case when an implementation has detected a Fault in a slot.

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.

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.

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.

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.

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)

806f0108-1501ffff [PowerSupplyElementName] has Failed. (HSC Status)

Explanation: This message is for the use case when an implementation has detected a Power Supply has failed.

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.

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.

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-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.

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-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.

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-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.

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-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.

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-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.

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-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.

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-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.

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-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.

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-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.

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-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.

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-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.

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-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.

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-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.

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-200ffff **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.

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-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.

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-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.

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.

One of the DIMMs :

806f010d-0401ffff The Drive
[StorageVolumeElementName] has been disabled due to a detected fault.
(Computer HDD0)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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.
(Computer HDD1)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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.
(Computer HDD4)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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.
(Computer HDD5)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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.
(Computer HDD6)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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.
(Computer HDD7)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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. (1U Storage HDD0)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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. (1U Storage HDD1)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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. (1U Storage HDD2)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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. (1U Storage HDD3)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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. (1U Storage HDD4)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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. (1U Storage HDD5)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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. (1U Storage HDD6)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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-040effff The Drive
[StorageVolumeElementName] has been disabled due to a detected fault. (1U Storage HDD7)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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-0410ffff The Drive
[StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 1)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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-0411ffff The Drive

[StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 2)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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-0412ffff The Drive

[StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 3)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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-0413ffff The Drive

[StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 4)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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-0414ffff The Drive

[StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 5)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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-0415ffff The Drive
[StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 6)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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-0416ffff The Drive
[StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 7)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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-0417ffff The Drive
[StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 8)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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-0418ffff The Drive
[StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 9)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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-0419ffff The Drive

[StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 10)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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-041affff The Drive

[StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 11)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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-041bffff The Drive

[StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 12)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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-041cffff The Drive

[StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 13)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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-041dffff The Drive

[StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 14)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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-041effff The Drive

[StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 15)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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-041fffff The Drive

[StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 16)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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-2b81ffff The Drive

[StorageVolumeElementName] has been disabled due to a detected fault. (FDIMM Stat)

Explanation: This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

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.

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.

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. (Trained technician only) Reseat the microprocessor, and then restart the server.

2. (Trained technician only) 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.

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. (Trained technician only) Reseat the microprocessor, and then restart the server.
2. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

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.

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.

806f0125-1001ffff [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.

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.

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.

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.

806f0125-1f01ffff [ManagedElementName] detected as absent. (PDB Cable)

Explanation: This message is for the use case when an implementation has detected a Managed Element is Absent.

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.

806f0125-2c01ffff [ManagedElementName] detected as absent. (Exlom Card)

Explanation: This message is for the use case when an implementation has detected a Managed Element is Absent.

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.

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. Update the latest level of system firmware and device drivers are installed for all adapters and standard devices, such as UEFI, IMM Ethernet, 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. Run the DSA program.
3. Reseat the adapter.
4. Replace the adapter.
5. (Trained technician only) Replace microprocessor n. (n = microprocessor number)
6. (Trained technician only) Replace the system board.

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.

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. Update the latest level of system firmware and device drivers are installed for all adapters and standard devices, such as UEFI, IMM Ethernet, 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. Run the DSA program.
3. Reseat the adapter.
4. Replace the adapter.
5. (Trained technician only) Replace microprocessor n.
(n = microprocessor number)
6. (Trained technician only) Replace the system board.

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.

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. Update the latest level of system firmware and device drivers are installed for all adapters and standard devices, such as UEFI, IMM Ethernet, 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. Run the DSA program.
3. Reseat the adapter.
4. Replace the adapter.
5. (Trained technician only) Replace microprocessor n.
(n = microprocessor number)
6. (Trained technician only) Replace the system board.

One of the CPUs :

806f020d-0401ffff Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Computer HDD0)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-0402ffff Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Computer HDD1)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-0403ffff Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Computer HDD4)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-0404ffff Failure Predicted on drive
[StorageVolumeElementName] for array
[ComputerSystemElementName].
(Computer HDD5)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-0405ffff Failure Predicted on drive
[StorageVolumeElementName] for array
[ComputerSystemElementName].
(Computer HDD6)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-0406ffff Failure Predicted on drive
[StorageVolumeElementName] for array
[ComputerSystemElementName].
(Computer HDD7)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-0407ffff Failure Predicted on drive
[StorageVolumeElementName] for array
[ComputerSystemElementName]. (1U
Storage HDD0)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-0408ffff Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD1)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-0409ffff Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD2)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-040affff Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD3)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-040bffff Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD4)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-040cffff Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD5)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-040dffff Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD6)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-040effff Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD7)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-0410ffff Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 1)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-0411ffff Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 2)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-0412ffff Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 3)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-0413ffff Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 4)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-0414ffff Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 5)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-0415ffff Failure Predicted on drive
[StorageVolumeElementName] for array
[ComputerSystemElementName].
(SDHV Drive 6)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-0416ffff Failure Predicted on drive
[StorageVolumeElementName] for array
[ComputerSystemElementName].
(SDHV Drive 7)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-0417ffff Failure Predicted on drive
[StorageVolumeElementName] for array
[ComputerSystemElementName].
(SDHV Drive 8)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-0418ffff Failure Predicted on drive
[StorageVolumeElementName] for array
[ComputerSystemElementName].
(SDHV Drive 9)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-0419ffff Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 10)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-041affff Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 11)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-041bffff Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 12)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-041cffff Failure Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 13)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-041dffff Failure Predicted on drive
[StorageVolumeElementName] for array
[ComputerSystemElementName].
(SDHV Drive 14)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-041effff Failure Predicted on drive
[StorageVolumeElementName] for array
[ComputerSystemElementName].
(SDHV Drive 15)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-041fffff Failure Predicted on drive
[StorageVolumeElementName] for array
[ComputerSystemElementName].
(SDHV Drive 16)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

806f020d-2b81ffff Failure Predicted on drive
[StorageVolumeElementName] for array
[ComputerSystemElementName].
(FDIMM Stat)

Explanation: This message is for the use case when an implementation has detected an Array Failure is Predicted.

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 (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)

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.
-

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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-0401ffff Hot Spare enabled for
[ComputerSystemElementName].
(Computer HDD0)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

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].
(Computer HDD1)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

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].
(Computer HDD4)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

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].
(Computer HDD5)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

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].
(Computer HDD6)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

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].
(Computer HDD7)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

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]. (1U
Storage HDD0)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

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]. (1U
Storage HDD1)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

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]. (1U
Storage HDD2)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

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]. (1U
Storage HDD3)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

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]. (1U
Storage HDD4)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

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]. (1U
Storage HDD5)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

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]. (1U
Storage HDD6)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

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-040effff Hot Spare enabled for
[ComputerSystemElementName]. (1U
Storage HDD7)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

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.

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).

806f0322-1301ffff Computer System
[ComputerSystemElementName] is in
Standby. (ACPI Power State)

Explanation: This message is for the use case when an implementation has detected a System went into Standby mode.

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and ID: 0360

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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. Make sure that the installed microprocessors are compatible with each other.

2. (Trained technician only) Reseat microprocessor n.
3. (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.

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. Make sure that the installed microprocessors are compatible with each other.
2. (Trained technician only) Reseat microprocessor n.
3. (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.

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. Make sure that the installed microprocessors are compatible with each other.
2. (Trained technician only) Reseat microprocessor n.
3. (Trained technician only) Replace microprocessor n.
(n = microprocessor number)

One of the CPUs :

806f0508-1501ffff [PowerSupplyElementName] is operating in an Input State that is out of range. (HSC Status)

Explanation: This message is for the use case when an implementation has detected a Power Supply that has input out of range.

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and ID: 0098

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

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.

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: 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.

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.

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: 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.

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.

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: 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.

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.

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: 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.

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.

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: 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.

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.

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: 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.

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.

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: 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.

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.

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: 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.
-

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.

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: 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.

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.

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: 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.

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.

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: 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.

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.

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: 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.

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.

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: 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.

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.

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: 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.

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.

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: 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.
-

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.

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: 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.

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.

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: 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.

One of the DIMMs :

806f050d-0401ffff Array [ComputerSystemElementName] is in critical condition. (Computer HDD0)

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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. (Computer HDD1)

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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. (Computer HDD4)

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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. (Computer HDD5)

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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. (Computer HDD6)

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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.

- Replace the hard disk drive that is indicated by a lit status LED.

806f050d-0406ffff Array
[ComputerSystemElementName] is in critical condition. (Computer HDD7)

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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:

- Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
- Make sure that the SAS cable is connected correctly.
- Replace the SAS cable.
- Check backplane cable connection.
- Replace the RAID adapter.
- Replace the hard disk drive that is indicated by a lit status LED.

806f050d-0407ffff Array
[ComputerSystemElementName] is in critical condition. (1U Storage HDD0)

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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:

- Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
- Make sure that the SAS cable is connected correctly.
- Replace the SAS cable.
- Check backplane cable connection.
- Replace the RAID adapter.
- Replace the hard disk drive that is indicated by a lit status LED.

806f050d-0408ffff Array
[ComputerSystemElementName] is in critical condition. (1U Storage HDD1)

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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:

- Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
- Make sure that the SAS cable is connected correctly.
- Replace the SAS cable.
- Check backplane cable connection.
- Replace the RAID adapter.
- Replace the hard disk drive that is indicated by a lit status LED.

806f050d-0409ffff Array
[ComputerSystemElementName] is in critical condition. (1U Storage HDD2)

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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:

- Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
 - Make sure that the SAS cable is connected correctly.
 - Replace the SAS cable.
 - Check backplane cable connection.
 - Replace the RAID adapter.
 - Replace the hard disk drive that is indicated by a lit status LED.
-

806f050d-040affff Array**[ComputerSystemElementName] is in critical condition. (1U Storage HDD3)**

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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. (1U Storage HDD4)**

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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. (1U Storage HDD5)**

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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. (1U Storage HDD6)**

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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-040effff Array**[ComputerSystemElementName] is in critical condition. (1U Storage HDD7)****Explanation:** This message is for the use case when an implementation has detected that an Array is Critical.**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-0410ffff Array**[ComputerSystemElementName] is in critical condition. (SDHV Drive 1)****Explanation:** This message is for the use case when an implementation has detected that an Array is Critical.**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-0411ffff Array**[ComputerSystemElementName] is in critical condition. (SDHV Drive 2)****Explanation:** This message is for the use case when an implementation has detected that an Array is Critical.**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-0412ffff Array**[ComputerSystemElementName] is in critical condition. (SDHV Drive 3)****Explanation:** This message is for the use case when an implementation has detected that an Array is Critical.**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-0413ffff Array**[ComputerSystemElementName] is in critical condition. (SDHV Drive 4)**

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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-0414ffff Array**[ComputerSystemElementName] is in critical condition. (SDHV Drive 5)**

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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-0415ffff Array**[ComputerSystemElementName] is in critical condition. (SDHV Drive 6)**

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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-0416ffff Array**[ComputerSystemElementName] is in critical condition. (SDHV Drive 7)**

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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-0417ffff Array**[ComputerSystemElementName] is in critical condition. (SDHV Drive 8)****Explanation:** This message is for the use case when an implementation has detected that an Array is Critical.**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-0418ffff Array**[ComputerSystemElementName] is in critical condition. (SDHV Drive 9)****Explanation:** This message is for the use case when an implementation has detected that an Array is Critical.**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-0419ffff Array**[ComputerSystemElementName] is in critical condition. (SDHV Drive 10)****Explanation:** This message is for the use case when an implementation has detected that an Array is Critical.**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-041affff Array**[ComputerSystemElementName] is in critical condition. (SDHV Drive 11)****Explanation:** This message is for the use case when an implementation has detected that an Array is Critical.**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-041bffff Array**[ComputerSystemElementName] is in critical condition. (SDHV Drive 12)**

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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-041cffff Array**[ComputerSystemElementName] is in critical condition. (SDHV Drive 13)**

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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-041dffff Array**[ComputerSystemElementName] is in critical condition. (SDHV Drive 14)**

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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-041effff Array**[ComputerSystemElementName] is in critical condition. (SDHV Drive 15)**

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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-041ffff Array

[ComputerSystemElementName] is in critical condition. (SDHV Drive 16)

Explanation: This message is for the use case when an implementation has detected that an Array is Critical.

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.

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.

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.

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. Update the latest level of system firmware and device drivers are installed for all adapters and standard devices, such as UEFI, IMM Ethernet, 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. Run the DSA program.
3. Reseat the adapter.
4. Replace the adapter.
5. (Trained technician only) Replace microprocessor n. (n = microprocessor number)
6. (Trained technician only) Replace the system board.

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.

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. Update the latest level of system firmware and device drivers are installed for all adapters and standard devices, such as UEFI, IMM Ethernet, 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. Run the DSA program.
3. Reseat the adapter.
4. Replace the adapter.
5. (Trained technician only) Replace microprocessor n. (n = microprocessor number)
6. (Trained technician only) Replace the system board.

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.

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. Update the latest level of system firmware and device drivers are installed for all adapters and standard devices, such as UEFI, IMM Ethernet, 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. Run the DSA program.
3. Reseat the adapter.
4. Replace the adapter.
5. (Trained technician only) Replace microprocessor n. (n = microprocessor number)
6. (Trained technician only) Replace the system board.

One of the CPUs :

806f060d-0401ffff Array [ComputerSystemElementName] has failed. (Computer HDD0)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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. (Computer HDD1)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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. (Computer HDD4)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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. (Computer HDD5)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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. (Computer HDD6)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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. (Computer HDD7)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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. (1U Storage HDD0)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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. (1U Storage HDD1)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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. (1U Storage HDD2)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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. (1U Storage HDD3)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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. (1U Storage HDD4)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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. (1U Storage HDD5)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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. (1U Storage HDD6)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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-040effff Array
[ComputerSystemElementName] has failed. (1U Storage HDD7)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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-0410ffff Array
[ComputerSystemElementName] has failed. (SDHV Drive 1)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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-0411ffff Array
[ComputerSystemElementName] has failed. (SDHV Drive 2)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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-0412ffff Array
[ComputerSystemElementName] has failed. (SDHV Drive 3)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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-0413ffff Array
[ComputerSystemElementName] has failed. (SDHV Drive 4)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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-0414ffff Array
[ComputerSystemElementName] has failed. (SDHV Drive 5)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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-0415ffff Array
[ComputerSystemElementName] has failed. (SDHV Drive 6)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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-0416ffff Array
[ComputerSystemElementName] has failed. (SDHV Drive 7)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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-0417ffff Array
[ComputerSystemElementName] has failed. (SDHV Drive 8)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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-0418ffff Array
[ComputerSystemElementName] has failed. (SDHV Drive 9)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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-0419ffff Array
[ComputerSystemElementName] has failed. (SDHV Drive 10)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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-041affff Array
[ComputerSystemElementName] has failed. (SDHV Drive 11)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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-041bffff Array
[ComputerSystemElementName] has failed. (SDHV Drive 12)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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-041cffff Array
[ComputerSystemElementName] has failed. (SDHV Drive 13)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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-041dffff Array
[ComputerSystemElementName] has failed. (SDHV Drive 14)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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-041effff Array
[ComputerSystemElementName] has failed. (SDHV Drive 15)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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-041ffff Array
[ComputerSystemElementName] has failed. (SDHV Drive 16)

Explanation: This message is for the use case when an implementation has detected that an Array Failed.

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.

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 and following the memory population chart in the system publication.

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.

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 and following the memory population chart in the system publication.

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.

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 and following the memory population chart in the system publication.

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.

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 and following the memory population chart in the system publication.

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.

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 and following the memory population chart in the system publication.

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.

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 and following the memory population chart in the system publication.

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.

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 and following the memory population chart in the system publication.

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.

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 and following the memory population chart in the system publication.

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.

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 and following the memory population chart in the system publication.

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.

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 and following the memory population chart in the system publication.

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.

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 and following the memory population chart in the system publication.

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.

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 and following the memory population chart in the system publication.

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.

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 and following the memory population chart in the system publication.

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.

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 and following the memory population chart in the system publication.

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.

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 and following the memory population chart in the system publication.

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.

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 and following the memory population chart in the system publication.

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.

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 and following the memory population chart in the system publication. One of the DIMMs :

806f070d-0401ffff Rebuild in progress for Array in
system [ComputerSystemElementName].
(Computer HDD0)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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].
(Computer HDD1)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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].
(Computer HDD4)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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]. (Computer HDD5)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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]. (Computer HDD6)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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]. (Computer HDD7)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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]. (1U Storage HDD0)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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]. (1U Storage HDD1)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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]. (1U Storage HDD2)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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]. (1U Storage HDD3)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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]. (1U Storage HDD4)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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]. (1U Storage HDD5)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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]. (1U Storage HDD6)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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-040effff Rebuild in progress for Array in system [ComputerSystemElementName]. (1U Storage HDD7)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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-0410ffff Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 1)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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-0411ffff Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 2)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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-0412ffff Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 3)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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-0413ffff Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 4)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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-0414ffff Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 5)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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-0415ffff Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 6)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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-0416ffff Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 7)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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-0417ffff Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 8)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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-0418ffff Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 9)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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-0419ffff Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 10)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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-041affff Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 11)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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-041bffff Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 12)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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-041cffff Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 13)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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-041dffff Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 14)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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-041effff Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 15)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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-041ffffff Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 16)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

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.

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.

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.

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.

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.

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.

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.
-

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.

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.
-

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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 PECl)

Explanation: This message is for the use case when an implementation has detected a Bus Fatal Error.

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. (Trained technician only)Reseat the microprocessor, and then restart the server.
2. (Trained technician only)Replace microprocessor n. (n = microprocessor number)

806f0a13-0302ffff A Fatal Bus Error has occurred on system [ComputerSystemElementName]. (CPU 2 PECl)

Explanation: This message is for the use case when an implementation has detected a Bus Fatal Error.

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. (Trained technician only)Reseat the microprocessor, and then restart the server.
 2. (Trained technician only)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.

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.

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 :

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.

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.

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.

81010701-3702ffff Numeric sensor
 [NumericSensorElementName] going
 high (upper non-critical) has deasserted.
 (PIB Ambient Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

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.

81010701-3703ffff Numeric sensor
 [NumericSensorElementName] going
 high (upper non-critical) has deasserted.
 (HDD Inlet Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

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.

81010701-3704ffff Numeric sensor
 [NumericSensorElementName] going
 high (upper non-critical) has deasserted.
 (PCI Riser 1 Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

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.

81010701-3705ffff Numeric sensor
 [NumericSensorElementName] going
 high (upper non-critical) has deasserted.
 (PCI Riser 2 Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

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.

81010701-3706ffff Numeric sensor
 [NumericSensorElementName] going
 high (upper non-critical) has deasserted.
 (GPU Outlet Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

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.

81010701-3707ffff Numeric sensor
 [NumericSensorElementName] going
 high (upper non-critical) has deasserted.
 (HDD Outlet Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

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.

81010901-2d01ffff 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.

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.

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.

81010901-3702ffff Numeric sensor
 [NumericSensorElementName] going
 high (upper critical) has deasserted. (PIB
 Ambient Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

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.

81010901-3703ffff Numeric sensor
 [NumericSensorElementName] going
 high (upper critical) has deasserted.
 (HDD Inlet Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

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.

81010901-3704ffff Numeric sensor
 [NumericSensorElementName] going
 high (upper critical) has deasserted. (PCI
 Riser 1 Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

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.

81010901-3705ffff Numeric sensor
 [NumericSensorElementName] going
 high (upper critical) has deasserted. (PCI
 Riser 2 Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

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.

81010901-3706ffff Numeric sensor
 [NumericSensorElementName] going
 high (upper critical) has deasserted.
 (GPU Outlet Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

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.

81010901-3707ffff Numeric sensor
 [NumericSensorElementName] going
 high (upper critical) has deasserted.
 (HDD Outlet Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

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.

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 :

81010b01-2d01ffff 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.

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.

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.

81010b01-3702ffff Numeric sensor
 [NumericSensorElementName] going
 high (upper non-recoverable) has
 deasserted. (PIB Ambient Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

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.

81010b01-3703ffff Numeric sensor
 [NumericSensorElementName] going
 high (upper non-recoverable) has
 deasserted. (HDD Inlet Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

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.

81010b01-3704ffff Numeric sensor
 [NumericSensorElementName] going
 high (upper non-recoverable) has
 deasserted. (PCI Riser 1 Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

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.

81010b01-3705ffff Numeric sensor
[NumericSensorElementName] going
high (upper non-recoverable) has
deasserted. (PCI Riser 2 Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

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.

81010b01-3706ffff Numeric sensor
[NumericSensorElementName] going
high (upper non-recoverable) has
deasserted. (GPU Outlet Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

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.

81010b01-3707ffff Numeric sensor
[NumericSensorElementName] going
high (upper non-recoverable) has
deasserted. (HDD Outlet Temp)

Explanation: This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

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.

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.

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.

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.

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.

8103010d-2b81ffff Sensor [SensorElementName] has
deasserted. (FDIMM Config)

Explanation: This message is for the use case when an implementation has detected a Sensor has deasserted.

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.

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 :

8105010d-2b81ffff Sensor [SensorElementName] has indicated limit no longer exceeded. (FDIMM TempLimit)

Explanation: This message is for the use case when an implementation has detected a Sensor limit is no longer exceeded.

Severity: Info

Alert Category: System - Other

Serviceable: No

CIM Information: Prefix: PLAT and ID: 0513

SNMP Trap ID:

Automatically notify Support: No

User response: No action; information only.

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.

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-0b01ffff Sensor [SensorElementName] has deasserted the transition from normal to non-critical state. (RAID #1 Volume)

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.

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.

8107010d-0b07ffff Sensor [SensorElementName] has deasserted the transition from normal to non-critical state. (RAID #7 Volume)

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.

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.

8107010d-2b81ffff Sensor [SensorElementName] has deasserted the transition from normal to non-critical state. (FDIMM Warranty)

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.

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.

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.

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.

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.

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. CPU1 VR OverTemp :

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.

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. CPU2 VR OverTemp :

81070201-1101ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (PCI 1 Temp)

Explanation: This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

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.

81070201-1102ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (PCI 2 Temp)

Explanation: This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

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.

81070201-1103ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (PCI 3 Temp)

Explanation: This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

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.

81070201-1104ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (PCI 4 Temp)

Explanation: This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

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.

81070201-2c01ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (Exlom Temp)

Explanation: This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

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.

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.

81070202-1501ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (PIB Fault)

Explanation: This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

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.

81070202-1502ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (PDB Fault)

Explanation: This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

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.

8107020d-0b01ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (RAID #1 Volume)

Explanation: This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

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.

8107020d-0b07ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (RAID #7 Volume)

Explanation: This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

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.

8107020d-2b81ffff Sensor [SensorElementName] has transitioned to a less severe state from critical. (FDIMM Warranty)

Explanation: This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

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.

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.

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.

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.

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.

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.

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. (ME Error)

Explanation: This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

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 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.

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. CPU1 VR OverTemp :

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.

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. CPU2 VR OverTemp :

81070301-1101ffff Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (PCI 1 Temp)

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.

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.

81070301-1102ffff Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (PCI 2 Temp)

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.

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.

81070301-1103ffff Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (PCI 3 Temp)

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.

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.

81070301-1104ffff Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (PCI 4 Temp)

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.

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. (Exlom Temp)

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.

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-0b01ffff Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (RAID #1 Volume)

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.

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.

8107030d-0b07ffff Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (RAID #7 Volume)

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.

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.

8107030d-2b81ffff Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (FDIMM Warranty)

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.

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.

810b010c-2581ffff Redundancy Lost for [RedundancySetElementName] has deasserted. (Backup Memory)

Explanation: This message is for the use case when Redundancy Lost has deasserted.

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.

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.

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.

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.

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.

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.

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.

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.

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-0401ffff The Drive
[StorageVolumeElementName] has been
removed from unit
[PhysicalPackageElementName].
(Comput HDD0 Pres)

Explanation: This message is for the use case when an

implementation has detected a Drive has been Removed.

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.
-

816f000d-0402ffff The Drive
[StorageVolumeElementName] has been
removed from unit
[PhysicalPackageElementName].
(Comput HDD1 Pres)

Explanation: This message is for the use case when an implementation has detected a Drive has been Removed.

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.
-

816f000d-0403ffff The Drive
[StorageVolumeElementName] has been
removed from unit
[PhysicalPackageElementName].
(Comput HDD4 Pres)

Explanation: This message is for the use case when an

implementation has detected a Drive has been Removed.

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.

816f000d-0404ffff The Drive
 [StorageVolumeElementName] has been removed from unit
 [PhysicalPackageElementName].
 (Comput HDD5 Pres)

Explanation: This message is for the use case when an implementation has detected a Drive has been Removed.

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.

816f000d-0405ffff The Drive
 [StorageVolumeElementName] has been removed from unit
 [PhysicalPackageElementName].
 (Comput HDD6 Pres)

Explanation: This message is for the use case when an

implementation has detected a Drive has been Removed.

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.

816f000d-0406ffff The Drive
 [StorageVolumeElementName] has been removed from unit
 [PhysicalPackageElementName].
 (Comput HDD7 Pres)

Explanation: This message is for the use case when an implementation has detected a Drive has been Removed.

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.

816f000d-0407ffff The Drive
 [StorageVolumeElementName] has been removed from unit
 [PhysicalPackageElementName]. (1U Stg HDD0 Pres)

Explanation: This message is for the use case when an

816f000d-0408ffff • 816f000d-040bffff

implementation has detected a Drive has been Removed.

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.

816f000d-0408ffff The Drive
[StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (1U Stg HDD1 Pres)

Explanation: This message is for the use case when an implementation has detected a Drive has been Removed.

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.

816f000d-0409ffff The Drive
[StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (1U Stg HDD2 Pres)

Explanation: This message is for the use case when an

implementation has detected a Drive has been Removed.

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.

816f000d-040affff The Drive
[StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (1U Stg HDD3 Pres)

Explanation: This message is for the use case when an implementation has detected a Drive has been Removed.

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.

816f000d-040bffff The Drive
[StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (1U Stg HDD4 Pres)

Explanation: This message is for the use case when an

implementation has detected a Drive has been Removed.

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.

816f000d-040cffff The Drive

[StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (1U Stg HDD5 Pres)

Explanation: This message is for the use case when an implementation has detected a Drive has been Removed.

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.

816f000d-040dffff The Drive

[StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (1U Stg HDD6 Pres)

Explanation: This message is for the use case when an

implementation has detected a Drive has been Removed.

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.

816f000d-040effff The Drive

[StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (1U Stg HDD7 Pres)

Explanation: This message is for the use case when an implementation has detected a Drive has been Removed.

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.

816f000d-0410ffff The Drive

[StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 1)

Explanation: This message is for the use case when an

816f000d-0411ffff • 816f000d-0414ffff

implementation has detected a Drive has been Removed.

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.

816f000d-0411ffff The Drive
[StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 2)

Explanation: This message is for the use case when an implementation has detected a Drive has been Removed.

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.

816f000d-0412ffff The Drive
[StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 3)

Explanation: This message is for the use case when an

implementation has detected a Drive has been Removed.

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.

816f000d-0413ffff The Drive
[StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 4)

Explanation: This message is for the use case when an implementation has detected a Drive has been Removed.

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.

816f000d-0414ffff The Drive
[StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 5)

Explanation: This message is for the use case when an

implementation has detected a Drive has been Removed.

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.

816f000d-0415ffff The Drive
 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 6)

Explanation: This message is for the use case when an implementation has detected a Drive has been Removed.

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.

816f000d-0416ffff The Drive
 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 7)

Explanation: This message is for the use case when an

implementation has detected a Drive has been Removed.

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.

816f000d-0417ffff The Drive
 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 8)

Explanation: This message is for the use case when an implementation has detected a Drive has been Removed.

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.

816f000d-0418ffff The Drive
 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 9)

Explanation: This message is for the use case when an

816f000d-0419ffff • 816f000d-041cffff

implementation has detected a Drive has been Removed.

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.

816f000d-0419ffff The Drive
[StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 10)

Explanation: This message is for the use case when an implementation has detected a Drive has been Removed.

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.

816f000d-041affff The Drive
[StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 11)

Explanation: This message is for the use case when an

implementation has detected a Drive has been Removed.

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.

816f000d-041bffff The Drive
[StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 12)

Explanation: This message is for the use case when an implementation has detected a Drive has been Removed.

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.

816f000d-041cffff The Drive
[StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 13)

Explanation: This message is for the use case when an

implementation has detected a Drive has been Removed.

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.

816f000d-041dffff The Drive
 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 14)

Explanation: This message is for the use case when an implementation has detected a Drive has been Removed.

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.

816f000d-041effff The Drive
 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 15)

Explanation: This message is for the use case when an

implementation has detected a Drive has been Removed.

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.

816f000d-041fffff The Drive
 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 16)

Explanation: This message is for the use case when an implementation has detected a Drive has been Removed.

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.

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**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.**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.**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]. (Exlom Fault)

Explanation: This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.**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 Raid Fault :

816f0021-3001ffff Fault condition removed on slot
[PhysicalConnectorElementName] on system [ComputerSystemElementName]. (PCI 1)

Explanation: This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.**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.

816f0021-3002ffff 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.

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.

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.

816f0021-3004ffff Fault condition removed on slot
[PhysicalConnectorElementName] on
system [ComputerSystemElementName].
(PCI 4)

Explanation: This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

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.

816f0021-3005ffff Fault condition removed on slot
[PhysicalConnectorElementName] on
system [ComputerSystemElementName].
(PCI 5)

Explanation: This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

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.

816f0021-3006ffff Fault condition removed on slot
[PhysicalConnectorElementName] on
system [ComputerSystemElementName].
(PCI 6)

Explanation: This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

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.

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.

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.

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.

816f0108-1501ffff [PowerSupplyElementName] has returned to OK status. (HSC Status)

Explanation: This message is for the use case when an implementation has detected a Power Supply return to normal operational status.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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-0401ffff The Drive [StorageVolumeElementName] has been enabled. (Computer HDD0)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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. (Computer HDD1)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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. (Computer HDD4)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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. (Computer HDD5)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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. (Computer HDD6)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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. (Computer HDD7)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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. (1U Storage HDD0)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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. (1U Storage HDD1)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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. (1U Storage HDD2)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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. (1U Storage HDD3)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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. (1U Storage HDD4)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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. (1U Storage HDD5)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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. (1U Storage HDD6)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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-040effff The Drive
[StorageVolumeElementName] has been enabled. (1U Storage HDD7)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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-0410ffff The Drive
[StorageVolumeElementName] has been enabled. (SDHV Drive 1)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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-0411ffff The Drive
[StorageVolumeElementName] has been enabled. (SDHV Drive 2)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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-0412ffff The Drive
[StorageVolumeElementName] has been enabled. (SDHV Drive 3)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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-0413ffff The Drive
[StorageVolumeElementName] has been enabled. (SDHV Drive 4)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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-0414ffff The Drive
[StorageVolumeElementName] has been enabled. (SDHV Drive 5)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

Severity: Info

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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-0415ffff The Drive
[StorageVolumeElementName] has been enabled. (SDHV Drive 6)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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-0416ffff The Drive
[StorageVolumeElementName] has been enabled. (SDHV Drive 7)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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-0417ffff The Drive
[StorageVolumeElementName] has been enabled. (SDHV Drive 8)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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-0418ffff The Drive
[StorageVolumeElementName] has been enabled. (SDHV Drive 9)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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-0419ffff The Drive
[StorageVolumeElementName] has been enabled. (SDHV Drive 10)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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-041affff The Drive
[StorageVolumeElementName] has been enabled. (SDHV Drive 11)

Explanation: This message is for the use case when an implementation has detected a Drive was Enabled.

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-041bffff The Drive**[StorageVolumeElementName] has been enabled. (SDHV Drive 12)****Explanation:** This message is for the use case when an implementation has detected a Drive was Enabled.**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-041cffff The Drive**[StorageVolumeElementName] has been enabled. (SDHV Drive 13)****Explanation:** This message is for the use case when an implementation has detected a Drive was Enabled.**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-041dffff The Drive**[StorageVolumeElementName] has been enabled. (SDHV Drive 14)****Explanation:** This message is for the use case when an implementation has detected a Drive was Enabled.**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-041effff The Drive**[StorageVolumeElementName] has been enabled. (SDHV Drive 15)****Explanation:** This message is for the use case when an implementation has detected a Drive was Enabled.**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-041fffff The Drive**[StorageVolumeElementName] has been enabled. (SDHV Drive 16)****Explanation:** This message is for the use case when an implementation has detected a Drive was Enabled.**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-2b81ffff The Drive**[StorageVolumeElementName] has been enabled. (FDIMM Stat)****Explanation:** This message is for the use case when an implementation has detected a Drive was Enabled.**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.**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 implementation has detected that a system has recovered from a Bus Timeout.

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 implementation has detected that a system has recovered from a Bus Timeout.

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)

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.

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.

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.

816f0125-1f01ffff [ManagedElementName] detected as present. (PDB Cable)

Explanation: This message is for the use case when an implementation has detected a Managed Element is now Present.

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. (Exlom Card)

Explanation: This message is for the use case when an implementation has detected a Managed Element is now Present.

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.

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.

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.

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-0401ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (Computer HDD0)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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]. (Computer HDD1)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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]. (Computer HDD4)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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]. (Computer HDD5)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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]. (Computer HDD6)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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]. (Computer HDD7)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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]. (1U Storage HDD0)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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]. (1U Storage HDD1)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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]. (1U Storage HDD2)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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]. (1U Storage HDD3)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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]. (1U Storage HDD4)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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]. (1U Storage HDD5)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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]. (1U Storage HDD6)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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-040effff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD7)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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-0410ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 1)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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-0411ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 2)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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-0412ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 3)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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-0413ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 4)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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-0414ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 5)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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-0415ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 6)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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-0416ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 7)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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-0417ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 8)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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-0418ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 9)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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-0419ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 10)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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-041affff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 11)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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-041bffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 12)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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-041cffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 13)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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-041dffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 14)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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-041effff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 15)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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-041fffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 16)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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-2b81ffff Failure no longer Predicted on drive [StorageVolumeElementName] for array [ComputerSystemElementName]. (FDIMM Stat)

Explanation: This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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-0401ffff Hot spare disabled for
[ComputerSystemElementName].
(Computer HDD0)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

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].
(Computer HDD1)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

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].
(Computer HDD4)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

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].
(Computer HDD5)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

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].
(Computer HDD6)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

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].
(Computer HDD7)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

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]. (1U
Storage HDD0)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

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]. (1U
Storage HDD1)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

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]. (1U
Storage HDD2)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

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]. (1U
Storage HDD3)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

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]. (1U
Storage HDD4)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

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]. (1U
Storage HDD5)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

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]. (1U
Storage HDD6)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

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-040effff Hot spare disabled for
[ComputerSystemElementName]. (1U
Storage HDD7)

Explanation: This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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 :

816f0508-1501ffff [PowerSupplyElementName] has returned to a Normal Input State. (HSC Status)

Explanation: This message is for the use case when an implementation has detected a Power Supply that has input that has returned to normal.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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-0401ffff Critical Array [ComputerSystemElementName] has deasserted. (Computer HDD0)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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. (Computer HDD1)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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. (Computer HDD4)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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. (Computer HDD5)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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. (Computer HDD6)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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. (Computer HDD7)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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. (1U Storage HDD0)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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. (1U Storage HDD1)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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. (1U Storage HDD2)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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. (1U Storage HDD3)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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. (1U Storage HDD4)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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. (1U Storage HDD5)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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. (1U Storage HDD6)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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-040effff Critical Array
[ComputerSystemElementName] has deasserted. (1U Storage HDD7)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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-0410ffff Critical Array
[ComputerSystemElementName] has
deasserted. (SDHV Drive 1)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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-0411ffff Critical Array
[ComputerSystemElementName] has
deasserted. (SDHV Drive 2)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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-0412ffff Critical Array
[ComputerSystemElementName] has
deasserted. (SDHV Drive 3)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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-0413ffff Critical Array
[ComputerSystemElementName] has
deasserted. (SDHV Drive 4)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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-0414ffff Critical Array
[ComputerSystemElementName] has
deasserted. (SDHV Drive 5)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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-0415ffff Critical Array
[ComputerSystemElementName] has
deasserted. (SDHV Drive 6)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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-0416ffff Critical Array
[ComputerSystemElementName] has deasserted. (SDHV Drive 7)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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-0417ffff Critical Array
[ComputerSystemElementName] has deasserted. (SDHV Drive 8)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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-0418ffff Critical Array
[ComputerSystemElementName] has deasserted. (SDHV Drive 9)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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-0419ffff Critical Array
[ComputerSystemElementName] has deasserted. (SDHV Drive 10)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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-041affff Critical Array
[ComputerSystemElementName] has deasserted. (SDHV Drive 11)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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-041bffff Critical Array
[ComputerSystemElementName] has deasserted. (SDHV Drive 12)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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-041cffff Critical Array
[ComputerSystemElementName] has deasserted. (SDHV Drive 13)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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-041dffff Critical Array
[ComputerSystemElementName] has deasserted. (SDHV Drive 14)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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-041effff Critical Array
[ComputerSystemElementName] has deasserted. (SDHV Drive 15)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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-041fffff Critical Array
[ComputerSystemElementName] has deasserted. (SDHV Drive 16)

Explanation: This message is for the use case when an implementation has detected that an Critical Array has deasserted.

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.

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.

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.

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 :

816f060d-0401ffff Array in system [ComputerSystemElementName] has been restored. (Computer HDD0)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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. (Computer HDD1)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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. (Computer HDD4)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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. (Computer HDD5)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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. (Computer HDD6)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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. (Computer HDD7)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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. (1U Storage HDD0)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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. (1U Storage HDD1)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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. (1U Storage HDD2)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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. (1U Storage HDD3)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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. (1U Storage HDD4)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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. (1U Storage HDD5)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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. (1U Storage HDD6)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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-040effff Array in system
[ComputerSystemElementName] has
been restored. (1U Storage HDD7)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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-0410ffff Array in system
[ComputerSystemElementName] has
been restored. (SDHV Drive 1)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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-0411ffff Array in system
[ComputerSystemElementName] has
been restored. (SDHV Drive 2)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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-0412ffff Array in system
[ComputerSystemElementName] has
been restored. (SDHV Drive 3)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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-0413ffff Array in system
[ComputerSystemElementName] has
been restored. (SDHV Drive 4)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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-0414ffff Array in system
[ComputerSystemElementName] has
been restored. (SDHV Drive 5)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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-0415ffff Array in system
[ComputerSystemElementName] has
been restored. (SDHV Drive 6)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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-0416ffff Array in system
[ComputerSystemElementName] has
been restored. (SDHV Drive 7)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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-0417ffff Array in system
[ComputerSystemElementName] has
been restored. (SDHV Drive 8)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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-0418ffff Array in system
[ComputerSystemElementName] has
been restored. (SDHV Drive 9)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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-0419ffff Array in system
[ComputerSystemElementName] has
been restored. (SDHV Drive 10)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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-041affff Array in system
[ComputerSystemElementName] has
been restored. (SDHV Drive 11)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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-041bffff Array in system
[ComputerSystemElementName] has
been restored. (SDHV Drive 12)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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-041cffff Array in system
[ComputerSystemElementName] has
been restored. (SDHV Drive 13)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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-041dffff Array in system
[ComputerSystemElementName] has
been restored. (SDHV Drive 14)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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-041effff Array in system
[ComputerSystemElementName] has
been restored. (SDHV Drive 15)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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-041ffff **Array in system**
[ComputerSystemElementName] has
been restored. (SDHV Drive 16)

Explanation: This message is for the use case when an implementation has detected that a Failed Array has been Restored.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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-0401ffff Rebuild completed for Array in system [ComputerSystemElementName]. (Computer HDD0)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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]. (Computer HDD1)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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]. (Computer HDD4)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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]. (Computer HDD5)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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]. (Computer HDD6)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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]. (Computer HDD7)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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]. (1U Storage HDD0)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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]. (1U Storage HDD1)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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]. (1U Storage HDD2)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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]. (1U Storage HDD3)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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]. (1U Storage HDD4)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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]. (1U Storage HDD5)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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]. (1U Storage HDD6)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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-040effff Rebuild completed for Array in system [ComputerSystemElementName]. (1U Storage HDD7)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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-0410ffff Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 1)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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-0411ffff Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 2)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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-0412ffff Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 3)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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-0413ffff Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 4)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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-0414ffff Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 5)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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-0415ffff Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 6)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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-0416ffff Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 7)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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-0417ffff Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 8)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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-0418ffff Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 9)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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-0419ffff Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 10)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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-041affff Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 11)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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-041bffff Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 12)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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-041cffff Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 13)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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-041dffff Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 14)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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-041effff Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 15)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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-041fffff Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 16)

Explanation: This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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).

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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 23. 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 Lenovo Support.

Booting server to F1 setup menu

In addition 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**

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 too 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 install 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 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.1100B [S.1100B]

Explanation: CATERR(IERR) has asserted on processor %. Processor CATERR(IERR) has asserted

Severity: Error

User response: Complete the following steps:

1. Check IBM support site for an applicable service bulletin or UEFI firmware update that applies to this Processor error.
2. (Trained service technician only) If there are multiple Processor's, swap Processor's to move affected Processor to another Processor socket and retry. If problem follows the affected Processor, or this is a single Processor system, replace the Processor.
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.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 system. 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 Processor 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

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, reseal 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 Processor 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

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 Processor 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

405-001-000 BRCM:TestMIIRegisters Test Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

405-002-000 BRCM:TestEEPROM Test Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

405-003-000 BRCM:TestInternalMemory Test Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

405-004-000 BRCM:TestInterrupt Test Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

405-005-000 BRCM:TestLoopbackMAC Test Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

405-006-000 BRCM:TestLoopbackPhysical Test Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

405-007-000 BRCM:TestLEDs Test Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

405-800-000 BRCM:TestControlRegisters Test Aborted

Explanation: The control registers test was canceled.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

405-801-000 BRCM:TestMIIRegisters Test Aborted

Explanation: The MII register test was canceled.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

405-802-000 BRCM:TestEEPROM Test Aborted

Explanation: The EEPROM test was canceled.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

405-803-000 BRCM:TestInternalMemory Test Aborted

Explanation: The internal memory test was canceled.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

405-804-000 BRCM:TestInterrupt Test Aborted

Explanation: The interrupt test was canceled.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

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

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

405-807-000 BRCM:TestLEDs Test Aborted

Explanation: Verification of status LEDs was canceled.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

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.

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.

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.

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.

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.

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.

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.

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.

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

218-001-000 Brocade:ExternalLoopbackTest Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

218-002-000 Brocade:SerdesLoopbackTest Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

218-003-000 Brocade:PCILoopbackTest Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

218-004-000 Brocade:ExternalEthLoopbackTest Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

218-005-000 Brocade:SerdesEthLoopbackTest Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

218-006-000 Brocade:InternalLoopbackTest Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

218-800-000 Brocade:MemoryTest Aborted

Explanation: The test was canceled.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

218-801-000 Brocade:ExternalLoopbackTest Aborted

Explanation: The test was canceled.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

218-802-000 Brocade:SerdesLoopbackTest Aborted

Explanation: The test was canceled.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

218-803-000 Brocade:PCILoopbackTest Aborted

Explanation: The test was canceled.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

218-804-000 Brocade:ExternalEthLoopbackTest Aborted

Explanation: The test was canceled.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

218-805-000 Brocade:SerdesEthLoopbackTest Aborted

Explanation: The test was canceled.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

218-806-000 Brocade:InternalLoopbackTest Aborted

Explanation: The test was canceled.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

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.

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.

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.

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.

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.

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.

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.

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

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.

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.

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

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.

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.

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

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

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.

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

Explanation: Loopback testing at the physical layer was canceled.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

516-001-000 ELXUCNA: NIC PHY LoopBackTest Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

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

516-002-000 ELXUCNA: ELXUCNA: NIC LED(Beacon)Test Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

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.

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

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.

**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.

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

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.

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.

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.

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

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.

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.

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

Serviceable: No

Recoverable: No

Automatically notify Support: No

406-001-000 IANet:EEPROM Test Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

406-003-000 IANet:Interrupts Test Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

406-002-000 IANet:FIFO Test Passed

Explanation: The test passed.

Severity: Event

406-004-000 IANet:Loopback Test Passed

Explanation: The test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

406-800-000 IANet:Registers Test Aborted**Explanation:** Registers test was canceled.**Severity:** Warning**Serviceable:** No**Recoverable:** No**Automatically notify Support:** No

406-801-000 IANet:EEPROM Test Aborted**Explanation:** EEPROM test was canceled.**Severity:** Warning**Serviceable:** No**Recoverable:** No**Automatically notify Support:** No

406-802-000 IANet:FIFO Test Aborted**Explanation:** FIFO test was canceled.**Severity:** Warning**Serviceable:** No**Recoverable:** No**Automatically notify Support:** No

406-803-000 IANet:Interrupts Test Aborted**Explanation:** Interrupt test was canceled.**Severity:** Warning**Serviceable:** No**Recoverable:** No**Automatically notify Support:** No

406-804-000 IANet:Loopback Test Aborted**Explanation:** Loopback test was canceled.**Severity:** Warning**Serviceable:** No**Recoverable:** No**Automatically notify Support:** No

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.
-

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.
-

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.
-

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.

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.

406-904-000 IANet:Loopback Test Failed

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

407-800-000 LSIESG:DiskDefaultDiagnostic Test Aborted

Explanation: The test was canceled.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

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.

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

408-001-000 MLNX:MLNX_DiagnosticTestIBPort Test Passed

Explanation: Port Test Passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

408-800-000 MLNX:MLNX_DiagnosticTestEthernetPort Test Aborted

Explanation: Port Test was canceled.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

408-801-000 MLNX:MLNX_DiagnosticTestIBPort Test Aborted

Explanation: Port Test was canceled.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

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.

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.

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

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

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

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

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

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.

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.

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.

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.

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.

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.
-

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.
-

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.
-

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.
-

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.
-

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.
-

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.
-

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.
-

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.
-

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.
-

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.
-

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.
-

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.
-

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.
-

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.
-

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.
-

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.
-

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.
-

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.
-

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.
-

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

201-899-000 Standalone Memory Test Aborted

Explanation: Memory Diagnostics Test Aborted by user.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

201-899-001 Standalone Memory Test Aborted

Explanation: Memory Diagnostics Test Aborted by user.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

201-899-002 Standalone Memory Test Aborted

Explanation: Memory Diagnostics Test Aborted by user.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

201-899-003 Standalone Memory Test Aborted

Explanation: Memory Diagnostics Test Aborted by user.

Severity: Warning

Serviceable: No

Recoverable: No

Automatically notify Support: No

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.
-

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.
-

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.
-

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.

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

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.

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

202-803-000 MemStr Test Aborted

Explanation: User pressed Ctrl-C.

Severity: Warning

Serviceable: Yes

Recoverable: No

Automatically notify Support: No

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.

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.

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

409-003-000 Nvidia::DiagnosticServiceProvider::Bandwidth Test Passed

Explanation: Nvidia GPU Bandwidth test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

409-004-000 Nvidia::DiagnosticServiceProvider::Query Test Passed

Explanation: Nvidia GPU Query test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

409-005-000 Nvidia::DiagnosticServiceProvider::Matrix Test Passed

Explanation: Nvidia GPU Matrix test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

409-006-000 Nvidia::DiagnosticServiceProvider::Binomial Test Passed

Explanation: Nvidia GPU Binomial test passed.

Severity: Event

Serviceable: No

Recoverable: No

Automatically notify Support: No

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

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

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

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

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

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.

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.

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.

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.

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.
-

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

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.
-

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.
-

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.
-

215-802-000 Optical Drive Test Aborted

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.

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.

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.

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.

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

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

166-903-001 IMM I2C Test Failed

Explanation: IMM Indicates failure in LM92 -- PIB Thermal Sensor bus (BUS 2)

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.

166-904-001 IMM I2C Test Failed

Explanation: IMM Indicates failure in in LM92 -- Ambient Thermal Sensor I2C 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.

166-905-001 IMM I2C Test Failed

Explanation: IMM Indicates failure in PSOC -- On Board PSOC IC I2C Switch 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.

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

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.
-

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.

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.
-

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.

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.

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.

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.

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.

Appendix D. Getting help and technical assistance

If you need help, service, or technical assistance or just want more information about Lenovo products, you will find a wide variety of sources available from Lenovo to assist you.

Use this information to obtain additional information about Lenovo and Lenovo products, and determine what to do if you experience a problem with your Lenovo system or optional device.

Note: This section includes references to IBM web sites and information about obtaining service. IBM is Lenovo's preferred service provider for the System x, Flex System, and NeXtScale System products.

Before you call

Before you call, make sure that you have taken these steps to try to solve the problem yourself.

If you believe that you require warranty service for your Lenovo product, the service technicians will be able to assist you more efficiently if you prepare before you call.

- Check all cables to make sure that they are connected.
- Check the power switches to make sure that the system and any optional devices are turned on.
- Check for updated software, firmware, and operating-system device drivers for your Lenovo product. The Lenovo Warranty terms and conditions state that you, the owner of the Lenovo product, are responsible for maintaining and updating all software and firmware for the product (unless it is covered by an additional maintenance contract). Your service technician will request that you upgrade your software and firmware if the problem has a documented solution within a software upgrade.
- If you have installed new hardware or software in your environment, check <http://www.ibm.com/systems/info/x86servers/serverproven/compat/us> to make sure that the hardware and software is supported by your product.
- Go to to check for information to help you solve the problem.
- Gather the following information to provide to the service technician. This data will help the service technician quickly provide a solution to your problem and ensure that you receive the level of service for which you might have contracted.
 - Hardware and Software Maintenance agreement contract numbers, if applicable
 - Machine type number (Lenovo 4-digit machine identifier)
 - Model number
 - Serial number
 - Current system UEFI and firmware levels
 - Other pertinent information such as error messages and logs
- Go to http://www.ibm.com/support/entry/portal/Open_service_request to submit an Electronic Service Request. Submitting an Electronic Service Request will start the process of determining a solution to your problem by making the

pertinent information available to the service technicians. The IBM service technicians can start working on your solution as soon as you have completed and submitted an Electronic Service Request.

You can solve many problems without outside assistance by following the troubleshooting procedures that Lenovo provides in the online help or in the Lenovo product documentation. The Lenovo product documentation also describes the diagnostic tests that you can perform. The documentation for most systems, operating systems, and programs contains troubleshooting procedures and explanations of error messages and error codes. If you suspect a software problem, see the documentation for the operating system or program.

Using the documentation

Information about your Lenovo system and preinstalled software, if any, or optional device is available in the product documentation. That documentation can include printed documents, online documents, readme files, and help files.

See the troubleshooting information in your system documentation for instructions for using the diagnostic programs. The troubleshooting information or the diagnostic programs might tell you that you need additional or updated device drivers or other software. Lenovo maintains pages on the World Wide Web where you can get the latest technical information and download device drivers and updates. To access these pages, go to .

Getting help and information from the World Wide Web

Up-to-date information about Lenovo products and support is available on the World Wide Web.

On the World Wide Web, up-to-date information about Lenovo systems, optional devices, services, and support is available at . The most current version of the product documentation is available in the following product-specific Information Centers:

Flex System products:

<http://pic.dhe.ibm.com/infocenter/flexsys/information/index.jsp>

System x products:

<http://www.ibm.com/systems/x>

NeXtScale System products:

How to send DSA data

You can use the Enhanced Customer Data Repository to send diagnostic data to IBM.

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

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

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

- **Secure upload with the system serial number:** https://www.ecurep.ibm.com/app/upload_hw

Creating a personalized support web page

You can create a personalized support web page by identifying Lenovo products that are of interest to you.

To create a personalized support web page, go to <http://www.ibm.com/support/mynotifications>. From this personalized page, you can subscribe to weekly email notifications about new technical documents, search for information and downloads, and access various administrative services.

Software service and support

Through IBM Support Line, you can get telephone assistance, for a fee, with usage, configuration, and software problems with your Lenovo products.

For more information about Support Line and other IBM services, see <http://www.ibm.com/services> or see <http://www.ibm.com/planetwide> for support telephone numbers. In the U.S. and Canada, call 1-800-IBM-SERV (1-800-426-7378).

Hardware service and support

IBM is Lenovo's preferred service provider for the System x, Flex System and NeXtScale System products.

You can receive hardware service through your Lenovo reseller or from IBM. To locate a reseller authorized by Lenovo to provide warranty service, go to <http://www.ibm.com/partnerworld> and click **Business Partner Locator**. For IBM support telephone numbers, see <http://www.ibm.com/planetwide>. In the U.S. and Canada, call 1-800-IBM-SERV (1-800-426-7378).

In the U.S. and Canada, hardware service and support is available 24 hours a day, 7 days a week. In the U.K., these services are available Monday through Friday, from 9 a.m. to 6 p.m.

Taiwan product service

Use this information to contact IBM Taiwan product service.

台灣 IBM 產品服務聯絡方式：
台灣國際商業機器股份有限公司
台北市松仁路 7 號 3 樓
電話：0800-016-888

IBM Taiwan product service contact information:

IBM Taiwan Corporation
3F, No 7, Song Ren Rd.
Taipei, Taiwan
Telephone: 0800-016-888

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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 1 024 bytes, MB stands for 1 048 576 bytes, and GB stands for 1 073 741 824 bytes.

When referring to hard disk drive capacity or communications volume, MB stands for 1 000 000 bytes, and GB stands for 1 000 000 000 bytes. Total user-accessible capacity can vary depending on operating environments.

Maximum internal hard disk drive capacities assume the replacement of any standard hard disk drives and population of all hard-disk-drive bays with the largest currently supported drives that are available from Lenovo.

Maximum memory might require replacement of the standard memory with an optional memory module.

Each solid-state memory cell has an intrinsic, finite number of write cycles that the cell can incur. Therefore, a solid-state device has a maximum number of write cycles that it can be subjected to, expressed as total bytes written (TBW). A device that has exceeded this limit might fail to respond to system-generated commands or might be incapable of being written to. Lenovo is not responsible for replacement of a device that has exceeded its maximum guaranteed number of program/erase cycles, as documented in the Official Published Specifications for the device.

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Some software might differ from its retail version (if available) and might not include user manuals or all program functionality.

Particulate contamination

Attention: Airborne particulates (including metal flakes or particles) and reactive gases acting alone or in combination with other environmental factors such as humidity or temperature might pose a risk to the device that is described in this document.

Risks that are posed by the presence of excessive particulate levels or concentrations of harmful gases include damage that might cause the device to malfunction or cease functioning altogether. This specification sets forth limits for particulates and gases that are intended to avoid such damage. The limits must not be viewed or used as definitive limits, because numerous other factors, such as temperature or moisture content of the air, can influence the impact of particulates or environmental corrosives and gaseous contaminant transfer. In the absence of specific limits that are set forth in this document, you must implement practices that maintain particulate and gas levels that are consistent with the protection of human health and safety. If Lenovo determines that the levels of particulates or gases in your environment have caused damage to the device, Lenovo may condition provision of repair or replacement of devices or parts on implementation of appropriate remedial measures to mitigate such environmental contamination. Implementation of such remedial measures is a customer responsibility.

Table 24. Limits for particulates and gases

| Contaminant | Limits |
|---|---|
| Particulate | <ul style="list-style-type: none"> The room air must be continuously filtered with 40% atmospheric dust spot efficiency (MERV 9) according to ASHRAE Standard 52.2¹. 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 | <ul style="list-style-type: none"> Copper: Class G1 as per ANSI/ISA 71.04-1985³ Silver: Corrosion rate of less than 300 Å in 30 days |
| <p>¹ ASHRAE 52.2-2008 - <i>Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size</i>. Atlanta: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.</p> <p>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.</p> <p>³ ANSI/ISA-71.04-1985. <i>Environmental conditions for process measurement and control systems: Airborne contaminants</i>. Instrument Society of America, Research Triangle Park, North Carolina, U.S.A.</p> | |

Documentation format

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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IBM Corporation
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P.O. Box 12195
Research Triangle Park, North Carolina 27709-2195
U.S.A.*

In the request, be sure to include the publication part number and title.

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This product may not be certified in your country for connection by any means whatsoever to interfaces of public telecommunications networks. Further certification may be required by law prior to making any such connection. Contact a Lenovo representative or reseller for any questions.

Electronic emission notices

When you attach a monitor to the equipment, you must use the designated monitor cable and any interference suppression devices that are supplied with the monitor.

Federal Communications Commission (FCC) statement

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Lenovo is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that might cause undesired operation.

Industry Canada Class A emission compliance statement

This Class A digital apparatus complies with Canadian ICES-003.

Avis de conformité à la réglementation d'Industrie Canada

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Australia and New Zealand Class A statement

Attention: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

European Union EMC Directive conformance statement

This product is in conformity with the protection requirements of EU Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility. Lenovo cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the installation of option cards from other manufacturers.

This product has been tested and found to comply with the limits for Class A Information Technology Equipment according to European Standard EN 55022. The limits for Class A equipment were derived for commercial and industrial environments to provide reasonable protection against interference with licensed communication equipment.

Lenovo, Einsteinova 21, 851 01 Bratislava, Slovakia

Germany Class A statement

Deutschsprachiger EU Hinweis: Hinweis für Geräte der Klasse A EU-Richtlinie zur Elektromagnetischen Verträglichkeit

Deutschsprachiger EU Hinweis: Hinweis für Geräte der Klasse A EU-Richtlinie zur Elektromagnetischen Verträglichkeit Dieses Produkt entspricht den Schutzanforderungen der EU-Richtlinie 2004/108/EG (früher 89/336/EWG) zur Angleichung der Rechtsvorschriften über die elektromagnetische Verträglichkeit in den EU-Mitgliedsstaaten und hält die Grenzwerte der EN 55022 Klasse A ein.

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Deutschland:

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Zulassungsbescheinigung laut dem Deutschen Gesetz über die elektromagnetische Verträglichkeit von Betriebsmitteln, EMVG vom 20. Juli 2007 (früher Gesetz über die elektromagnetische Verträglichkeit von Geräten), bzw. der EMV EG Richtlinie 2004/108/EC (früher 89/336/EWG), für Geräte der Klasse A.

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VCCI-A

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Japan Electronics and Information Technology Industries Association (JEITA) statement

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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This is electromagnetic wave compatibility equipment for business (Type A). Sellers and users need to pay attention to it. This is for any areas other than home.

Russia Electromagnetic Interference (EMI) Class A statement

ВНИМАНИЕ! Настоящее изделие относится к классу А. В жилых помещениях оно может создавать радиопомехи, для снижения которых необходимы дополнительные меры

People's Republic of China Class A electronic emission statement

声 明
此为 A 级产品。在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对其干扰采取切实可行的措施。

Taiwan Class A compliance statement

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