



Lenovo NeXtScale nx360 M5 water-cooled
technology tray
Lenovo NeXtScale n1200 Enclosure
Installation and Service Guide



Machine Type: 5467 / 5468 and 5469

Note

Before using this information and the product it supports, read the general information in Appendix D “Getting help and technical assistance” on page 889, Appendix E “Notices” on page 893, the *Warranty Information* document, and the *Safety Information* and *Environmental Notices and User Guide* documents on the *Lenovo Documentation CD*.

Fourteenth Edition (July 2020)

© Copyright Lenovo 2020.

LIMITED AND RESTRICTED RIGHTS NOTICE: If data or software is delivered pursuant to a General Services Administration (GSA) contract, use, reproduction, or disclosure is subject to restrictions set forth in Contract No. GS-35F-05925.

Contents

Safety	v
Safety statements	vi

Chapter 1. The Lenovo NeXtScale nx360 M5 water-cooled technology tray Type 5467, Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469 1

The Lenovo <i>Documentation CD</i>	3
Hardware and software requirements	3
The Documentation Browser	3
Related documentation	4
Brocade documentation	4
Notices and statements in this document	5
Server features and specifications	5
What your compute node offers	8
Lenovo XClarity Administrator	11
Reliability, availability, and serviceability	12
Systems Director	13
Server controls, LEDs, and power	14
Front view	14
Rear view	16
Server power features	19

Chapter 2. Components, features, and controls 21

Instructions for Lenovo Business Partners	21
Sending DSA data to Lenovo	22
Server components	22
System-board internal connectors	24
System-board switches and jumpers	25
System-board LEDs	27
Installation guidelines	28
System reliability guidelines	29
Handling static-sensitive devices	30

Chapter 3. Configuration information and instructions 31

Updating the firmware	31
Configuring the server	32
Using the ServerGuide Setup and Installation CD	33
Using the Setup utility	34
Using the Boot Manager	40
Starting the backup server firmware	40
The UpdateXpress System Pack Installer	40
Changing the Power Policy option to the default settings after loading UEFI defaults	41

Using the integrated management module	41
Using the remote presence and blue-screen capture features	42
Using the embedded hypervisor	44
Configuring the Ethernet controller	45
Enabling Features on Demand Ethernet software	45
Enabling Features on Demand RAID software	45
Configuring RAID arrays	45
Lenovo Advanced Settings Utility program	46
Updating Lenovo Systems Director	46
Updating the Universal Unique Identifier (UUID)	47
Updating the DMI/SMBIOS data	49

Chapter 4. Troubleshooting 53

Start here	53
Diagnosing a problem	53
Undocumented problems	55
Service bulletins	55
Checkout procedure	56
About the checkout procedure	56
Performing the checkout procedure	56
Diagnostic tools	57
Light path diagnostics	59
Power-supply LEDs	60
System pulse LEDs	61
Event logs	62
POST	64
Lenovo Dynamic System Analysis	65
Automated service request (call home)	67
Lenovo Electronic Service Agent	67
Error messages	67
Troubleshooting by symptom	68
General problems	68
Hypervisor problems	68
Intermittent problems	69
Keyboard, mouse, or USB-device problems	69
Memory problems	70
Microprocessor problems	71
Monitor and video problems	72
Network connection problems	75
Optional-device problems	75
Power problems	76
Serial port problems	78
ServerGuide problems	78

Software problems	79
Universal Serial Bus (USB) port problems	80
Solving power problems	80
Solving Ethernet controller problems	80
Solving undetermined problems	81
Problem determination tips	82
Recovering the server firmware (UEFI update failure)	83
In-band manual recovery method	84
In-band automated boot recovery method	86
Out-of-band method	86
Automated boot recovery (ABR)	86
Nx-boot failure	86

Chapter 5. Parts listing, Lenovo NeXtScale nx360 M5 water-cooled technology tray Type 5467, Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469 89

Replaceable server components	89
Type 5468 chassis and type 5469 manifold components	94
Structural parts	97
Power cords	98

Chapter 6. Removing and replacing server components 101

Returning a device or component	101
Removing and replacing server components	101
Removing the manifold	101
Replacing the manifold	120
Removing a water-cooled technology tray from a chassis	141
Installing a water-cooled technology tray in a chassis	142
Removing and replacing structural parts	144
Removing and replacing Tier 1 CRUs	145
Removing and replacing Tier 2 CRUs or FRUs	167

Appendix A. Integrated Management Module 2.1 (IMM2.1) error messages 217

List of IMM events	218
------------------------------	-----

Appendix B. UEFI/POST diagnostic codes 735

List of UEFI events.	736
------------------------------	-----

Appendix C. DSA diagnostic test results 757

DSA Broadcom network test results	757
---	-----

Test results for the DSA Broadcom network test	757
DSA Brocade test results	765
Test results for the DSA Brocade test	765
DSA checkpoint panel test results	773
Test results for the DSA checkpoint panel test	773
DSA CPU stress test results	774
Test results for the DSA CPU stress test	774
DSA Emulex adapter test results	777
Test results for the DSA Emulex adapter test	777
DSA EXA port ping test results	780
Test results for the DSA EXA port ping test	780
DSA hard drive test results	782
Test results for the DSA hard drive test	782
DSA Intel network test results	784
Test results for the DSA Intel network test	784
DSA LSI hard drive test results	789
Test results for the DSA LSI hard drive test	789
DSA Mellanox adapter test results	790
Test results for the DSA Mellanox adapter test	790
DSA memory isolation test results.	793
Test results for the DSA memory isolation test	793
DSA memory stress test results	859
Test results for the DSA memory stress test	859
DSA Nvidia GPU test results	862
Test results for the DSA Nvidia GPU test	862
DSA optical drive test results	867
Test results for the DSA optical drive test	868
DSA system management test results	872
Test results for the DSA system management test	872
DSA tape drive test results	883
Test results for the DSA tape drive test	883

Appendix D. Getting help and technical assistance 889

Before you call	889
Using the documentation	890
Getting help and information from the World Wide Web	890
How to send DSA data	890
Creating a personalized support web page	890
Software service and support	890
Hardware service and support	891
Taiwan product service	891

Appendix E. Notices 893

Trademarks	894
Important notes	894
Recycling information	894
Particulate contamination	895
Telecommunication regulatory statement	895
Electronic emission notices	896
Federal Communications Commission (FCC) statement	896
Industry Canada Class A emission compliance statement	896
Avis de conformité à la réglementation d'Industrie Canada	896
Australia and New Zealand Class A statement	896

European Union EMC Directive conformance statement	896
Germany Class A statement	897
Japanese electromagnetic compatibility statements	898
Korea Communications Commission (KCC) statement	898
Russia Electromagnetic Interference (EMI) Class A statement	898
People's Republic of China Class A electronic emission statement	898
Taiwan Class A compliance statement	899
Taiwan BSMI RoHS declaration	899

Index901

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.

在安裝本產品之前，請仔細閱讀 **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.

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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་སྐྱོད་མ་བྱས་གོང་། རྫོང་གི་ཡིད་གཟབ་
བྱ་འདྲ་མིན་ཡིད་པའི་འོད་སྟེར་བལྟ་དགོས།

Bu ürünü kurmadan önce güvenlik bilgilerini okuyun.

مەزكۇر مەھسۇلاتنى ئورنىتىشتىن بۇرۇن بىخەتەرلىك ئۇچۇرلىرىنى ئوقۇپ چىقىڭ.

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

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)



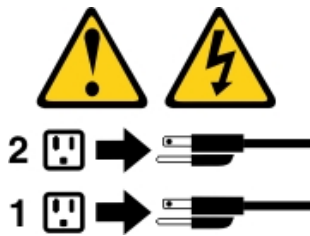
≥ 55 kg (121.2 lb)

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.



Statement 31





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 power source.**
- **Connect to properly wired power sources 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 ac power cords, dc power sources, network connections, telecommunications systems, and serial cables before you open the device covers, unless you are instructed otherwise in the installation and configuration procedures.**
- **Connect and disconnect cables as described in the following table when you install, move, or open covers on this product or attached devices.**

To Connect:

1. Turn OFF all power sources and equipment that is to be attached to this product.
2. Attach signal cables to the product.
3. Attach power cords to the product.
 - For ac systems, use appliance inlets.
 - For dc systems, ensure correct polarity of -48 V dc connections: RTN is + and -48 V dc is -. Earth ground should use a two-hole lug for safety.
4. Attach signal cables to other devices.
5. Connect power cords to their sources.
6. Turn ON all the power sources.

To Disconnect:

1. Turn OFF all power sources and equipment that is to be attached to this product.
 - For ac systems, remove all power cords from the chassis power receptacles or interrupt power at the ac power distribution unit.
 - For dc systems, disconnect dc power sources at the breaker panel or by turning off the power source. Then, remove the dc cables.
2. Remove the signal cables from the connectors.
3. Remove all cables from the devices.

Statement 34



CAUTION:

To reduce the risk of electric shock or energy hazards:

- **This equipment must be installed by trained service personnel in a restricted-access location, as defined by the NEC and IEC 60950-1, First Edition, The Standard for Safety of Information Technology Equipment.**
- **Connect the equipment to a properly grounded safety extra low voltage (SELV) source. A SELV source is a secondary circuit that is designed so that normal and single fault conditions do not cause the voltages to exceed a safe level (60 V direct current).**
- **Incorporate a readily available approved and rated disconnect device in the field wiring.**
- **See the specifications in the product documentation for the required circuit-breaker rating for branch circuit overcurrent protection.**

- Use copper wire conductors only. See the specifications in the product documentation for the required wire size.
- See the specifications in the product documentation for the required torque values for the wiring-terminal screws.

Statement 35:



CAUTION:
Hazardous energy present. Voltages with hazardous energy might cause heating when shorted with metal, which might result in splattered metal, burns, or both.

Statement 36:



CAUTION:
Always install the slide retention screw.

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 Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469 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 compute node offers” on page 8 and “Reliability, availability, and serviceability” on page 12.

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

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

If firmware and documentation updates are available, you can download them from the Lenovo website. The 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

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

that is not included in the water-cooled technology tray documentation. To check for updates, go to <http://www.lenovo.com/support>.

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.

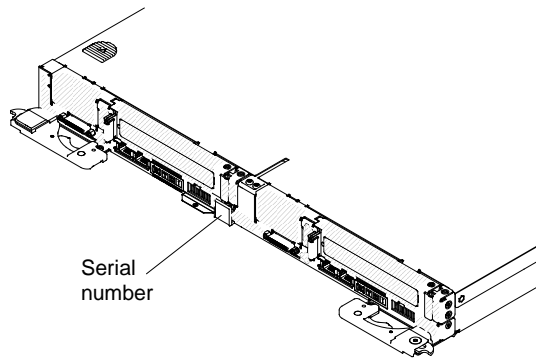


Figure 1. ID label on the front of the water-cooled technology tray

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.lenovo.com/serverproven/>.

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

The Lenovo Documentation CD

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

Hardware and software requirements

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

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

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

The Documentation Browser

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

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

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

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

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

When you select a document, a description of the document is displayed under **Topic Description**. To select more than one document, press and hold the **Ctrl** key while you select the documents. Click **View** 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, Uyгур, 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 <https://support.lenovo.com/us/en/documents/LNVO-CENTER>.

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

Brocade documentation

Use this information to identify and locate related Brocade documentation.

The following section introduces Brocade documents that you might find useful for the installation and administration.

- **EN4023 User Guide**

- *Network OS Layer 2 Switching Configuration Guide* - <http://www.brocade.com/content/html/en/configuration-guide/nos-601a-l2guide/>
- *Network OS Command Reference Guide* - <http://www.brocade.com/content/html/en/command-reference-guide/nos-601a-commandref/index.html>
- *Network OS Message Reference* - <http://www.brocade.com/content/html/en/message-reference-guides/nos-601a-messageref/wwhelp/wwhimpl/js/html/wwhelp.htm>

- **FC5022 User Guide**

- *Fabric OS Administrator's Guide* - <http://www.brocade.com/content/html/en/administration-guide/fos-740-adminguide/>
- *Fabric OS Command Reference* - <http://www.brocade.com/content/html/en/command-reference-guide/fos-741-commandref/wwhelp/wwhimpl/js/html/wwhelp.htm>
- *Fabric OS Message Reference* - http://www.brocade.com/content/html/en/message-reference-guides/FOS_740_MESSAGES/wwhelp/wwhimpl/js/html/wwhelp.htm#href=Title.1.2.html
- *Access Gateway Administrator's Guide* - <http://www.brocade.com/content/html/en/administration-guide/fos-740-accessgateway/index.html>

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 or two @Intel Xeon™ E5-2600 v4 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.lenovo.com/serverproven/>.

Memory:

- 16 dual inline memory module (DIMM) connectors available per system board
- Type: Low-profile (LP) double-data rate (DDR4) DRAM
- Supports 8 GB / 16 GB RDIMMs and 32 GB DIMMs 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
 - 1300-watt ac
 - 1500-watt ac

Notes:

- 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 895.

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 compute node offers

Your compute node 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 compute node or in an optional device that is installed in the compute node, you can purchase an activation key to activate the feature. For information about Features on Demand, see <https://fod.lenovo.com/lkms>.

- **Flexible network support**

The compute node 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.

- **Hard disk drive support**

Each tray supports up to two 2.5 inch simple swap SATA hard disk drives, or two 1.8-inch simple-swap solid-state drives (one per node).

- **LenovoServerGuide 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” on page 41 and the *Integrated Management Module 2.1 Users Guide* at the <http://www.lenovo.com/support>.

- **Large system-memory capacity**

Each tray supports two compute nodes. Each compute node supports up to 512 GB of system memory. The memory controller provides support for up to 16 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.lenovo.com/serverproven/>.

- **Lenovo XClarity Administrator**

Lenovo XClarity Administrator is a centralized resource-management solution that enables administrators to deploy infrastructure faster and with less effort. The solution seamlessly integrates into System x, ThinkServer, and NeXtScale servers, as well as the Flex System converged infrastructure platform.

Lenovo XClarity Administrator provides:

- Automated discovery
- Agent-free hardware management
- Monitoring
- Firmware updates and compliance
- Pattern-based configuration management
- Deployment of operating systems and hypervisors

Administrators are able to find the right information and accomplish critical tasks faster through an uncluttered, dashboard-driven graphical user interface (GUI). Centralizing and automating foundational infrastructure deployment and lifecycle management tasks across large pools of systems frees up administrator time, and makes resources available to end-users faster.

Lenovo XClarity is easily extended into the leading virtualization management platforms from Microsoft and VMware using software plug-ins, called Lenovo XClarity Integrators. The solution improves workload uptime and service-level assurance by dynamically relocating workloads from affected hosts in the cluster during rolling server reboots or firmware updates, or during predicted hardware failures.

For more information about Lenovo XClarity Administrator, see the <http://shop.lenovo.com/us/en/systems/software/systems-management/xclarity/> and the http://pic.dhe.ibm.com/infocenter/flexsys/information/topic/com.lenovo.lxca.doc/ug_product_page.html.

- **Installing Lenovo XClarity Administrator**

- **Installing Lenovo XClarity Administrator for the first time**

The initial setup of Lenovo XClarity Administrator involves preparing the network, installing and configuring the Lenovo XClarity Administrator virtual appliance, managing systems, and optionally setting up automatic problem notification.

There are a number of different ways to connect manageable systems to the network and to set up the Lenovo XClarity Administrator to manage those systems based on the network topology that is implemented in your environment. For guidance for installing the Lenovo XClarity Administrator in VMware ESXi-based and Hyper-V environments, see <http://pic.dhe.ibm.com/infocenter/flexsys/information/index.jsp?topic=%2Fcom.lenovo.lxca.doc%2Fsetup.html>.

- **Free 90-day trial**

Lenovo XClarity Administrator offers a free, 90-day trial license that enables you to use all available features (including operating-system deployment, firmware maintenance, and configuration management) for a limited time.

After 90 days, you can continue to use Lenovo XClarity Administrator to manage and monitor your hardware for free; however, you must purchase a full-function-enablement license to continue using Lenovo XClarity Administrator to configure your hardware using Configuration Patterns and to deploy operating systems. You can purchase Lenovo XClarity Administrator licenses from your Lenovo seller or business partner.

For information about installing the license, see http://pic.dhe.ibm.com/infocenter/flexsys/information/index.jsp?topic=%2Fcom.lenovo.lxca.doc%2Fupdate_lxcasw.html.

- **Updating Lenovo XClarity Administrator**

You can download or import Lenovo XClarity Administrator updates and install the updates from the Lenovo XClarity Administrator web interface. For information about updating a Lenovo XClarity Administrator, see http://pic.dhe.ibm.com/infocenter/flexsys/information/index.jsp?topic=%2Fcom.lenovo.lxca.doc%2Fupdate_lxcasw.html. Ensure that you carefully read the Installation and Setup Instructions in the `Invgy_sw_lxca_***_anyos_noarch.txt` file that is provided in the update package .zip file.

- **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 14.

- **Microprocessor technology**

The compute node supports up to two multi-core IntelXeon microprocessors. For more information about supported microprocessors and their part numbers, see <http://www.lenovo.com/serverproven/>.

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

- **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 and storage devices.

Optional expansion nodes are available to provide a cost-effective way for you to increase and customize the capabilities of the compute node. Expansion nodes support a wide variety of industry-standard PCI Express, network, storage, and graphics adapters.

- **Power throttling**

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

The following settings for this policy are available:

- Basic power management
- Power module redundancy
- Power module redundancy with compute node throttling allowed

Lenovo XClarity Administrator

Lenovo XClarity Administrator is a centralized, resource-management solution that simplifies infrastructure management, speeds responses, and enhances the availability of Lenovo® server systems and solutions. It runs as a virtual appliance that automates discovery, inventory, tracking, monitoring, and provisioning for Lenovo servers, Flex System servers, and RackSwitch switches in a secure environment.

Lenovo XClarity Administrator provides a central interface to perform the following functions for all managed endpoints.

- **Hardware management**

Lenovo XClarity Administrator provides agent-free hardware management. It can automatically discover manageable endpoints, including Flex System chassis and components, System x, NeXtScale, and ThinkServer servers, and RackSwitch switches. Inventory of the discovered endpoints is also gathered, so an at-a-glance view of the managed hardware inventory and status is possible.

- **Hardware monitoring**

Lenovo XClarity Administrator provides a centralized view of all events and alerts that are generated from the managed endpoints. When a CMM or IMM detects an issue, an alert or event is passed to the Lenovo XClarity Administrator and is displayed in the events or alerts log. A summary of all alerts and events is visible from the Dashboard and the Status bar. Events and alerts for a specific endpoint are available from the Alerts and Events detail page for that endpoint.

- **Operating-system deployment**

You can use Lenovo XClarity Administrator to manage the repository of operating-system images and deploy operating-system images to managed servers.

- **Configuration management**

You can quickly provision and pre-provision all of your servers using a consistent configuration. Configuration settings (such as local storage, I/O adapters, boot settings, firmware, ports, and IMM and UEFI settings) are saved as a server pattern that can be applied to one or more managed servers. When the server patterns are updated, the changes are automatically deployed to the applied servers.

- **Firmware compliance and updates**

Firmware management is simplified by assigning firmware-compliance policies to managed endpoints. When you create and assign a compliance policy to managed endpoints, Lenovo XClarity Administrator monitors changes to the inventory for those endpoints and flags any endpoints that are out of compliance.

- **User management**

Lenovo XClarity Administrator provides a centralized authentication server to create and manage user accounts and to manage and authenticate user credentials. The authentication server is created automatically when you start the management server for the first time. The user accounts that you create for Lenovo XClarity Administrator are also used to log in to managed chassis and servers.

- **Security**

If your environment must comply with either NIST SP 800-131A or FIPS 140-2 standards, Lenovo XClarity Administrator can help you achieve a fully compliant environment. It supports self-signed SSL certificates (which are issued by an internal certificate authority) and external SSL certificates (which are issued by a private or commercial CA). Firewalls on chassis and servers can be configured to accept incoming requests from only Lenovo XClarity Administrator.

- **Service and support**

Lenovo XClarity Administrator can be set up to collect and send diagnostic files automatically to your preferred service provider when certain serviceable events occur in Lenovo XClarity Administrator and the managed endpoints. You can choose to send diagnostic files to Lenovo Support using call home or to another service provider using SFTP. You can also manually collect diagnostic files, open a problem record, and send diagnostic files to the Lenovo Support Center.

- **Task automation using scripts**

Lenovo XClarity Administrator can be integrated into external, higher-level management and automation platforms through open REST application programming interfaces (APIs). Using the REST APIs, Lenovo XClarity Administrator can easily integrate with your existing management infrastructure. You can also run Lenovo XClarity *cmdlets* in a Microsoft PowerShell session to automate certain management functions. The cmdlets use Lenovo XClarity Administrator REST APIs and can automate functions

- **Integration with other management software**

Lenovo XClarity Administrator is available stand-alone or as a bundled offering that is known as Lenovo XClarity Pro. Lenovo XClarity Pro is composed of the base Administrator product plus two Lenovo XClarity Integrator modules that provide integration into Microsoft Systems Center or VMware vCenter. Together, these tools provide discovery, monitoring, configuration, and management functions to reduce the cost and complexity of routine system administration for System x, NeXtScale, and Flex System endpoints.

More information about Lenovo XClarity Administrator is available at <http://shop.lenovo.com/us/en/systems/software/systems-management/xclarity/>.

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://publib.boulder.ibm.com/infocenter/director/v6r1x/index.jsp?topic=/director_6.1/fqm0_main.html, and the Systems Management website at <http://shop.lenovo.com/us/en/systems/solutions/>, 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 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.

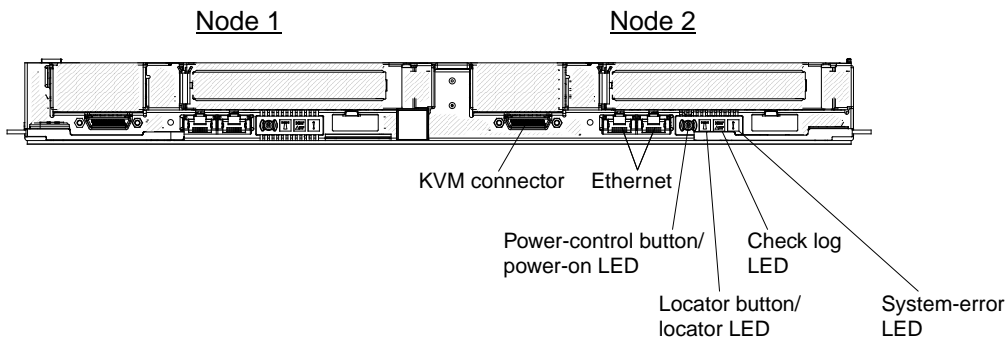


Figure 3. Water-cooled technology tray control panel buttons, connectors, and LEDs

If you have the optional hard-disk drives (HDDs) or solid-state drives (SSDs) installed, the following illustration identifies their locations.

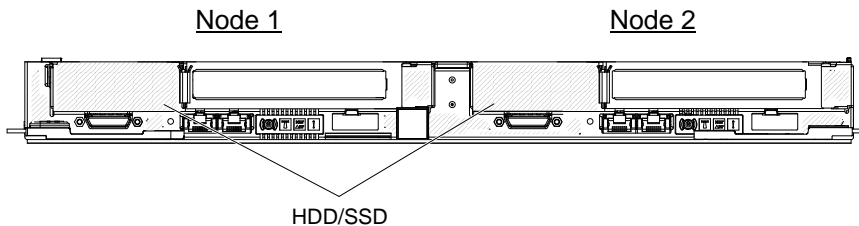


Figure 4. Locations of the optional HDDs/SSDs

Power button/LED

When the water-cooled technology tray is connected to power through the Lenovo NeXtScale n1200 Enclosure Type 5468, 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 Type 5468 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 Type 5468 and is ready to be turned on.
- **Lit continuously:** The water-cooled technology tray is connected to power through the Lenovo NeXtScale n1200 Enclosure Type 5468 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 62 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 Type 5468.

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.

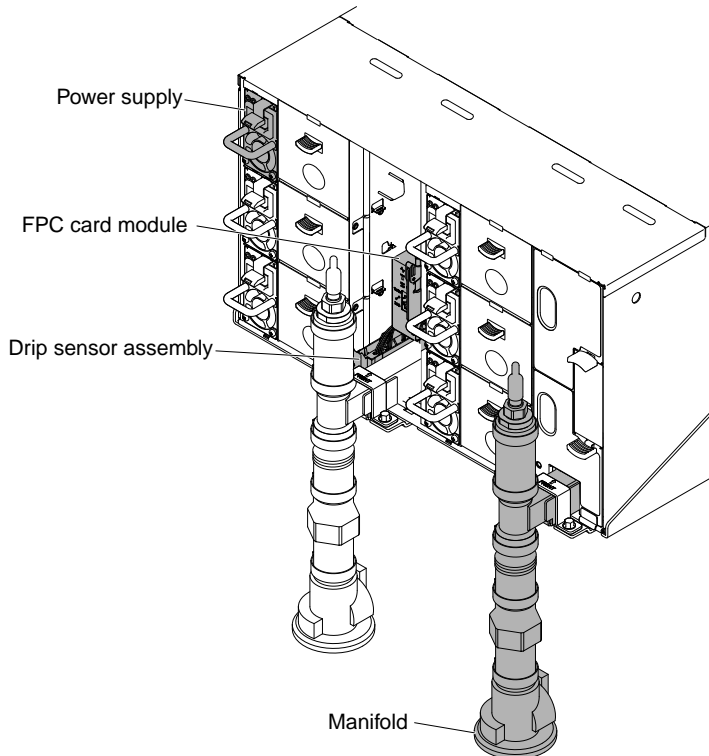


Figure 5. Connectors on the rear of the Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469

Fan and power controller

You can install the fan and power controller in the Lenovo NeXtScale n1200 Enclosure Type 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.

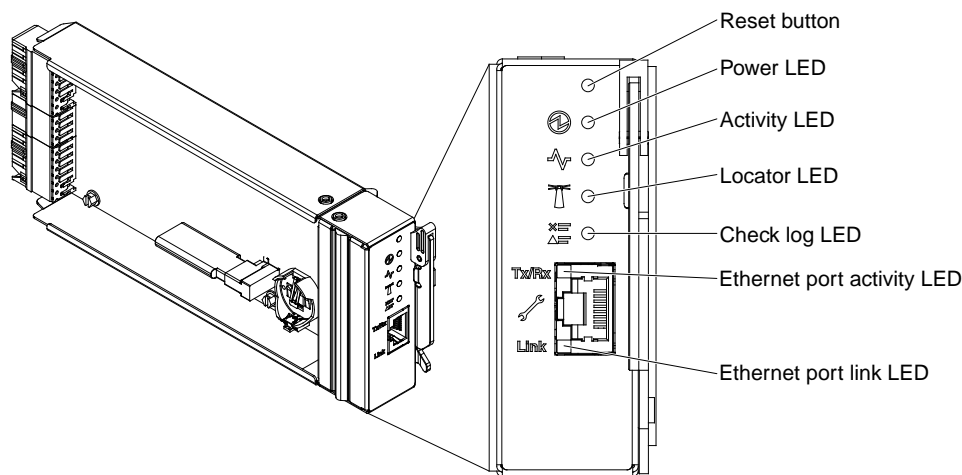


Figure 6. Fan and power controller with call outs for the LEDs, controls, and connectors

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:

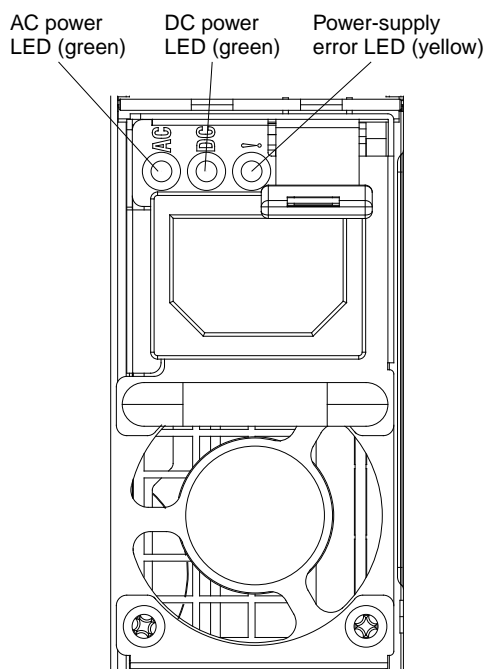


Figure 7. Power supply front view

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 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.

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.

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

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

If a power failure occurs while the server is turned on, the server will restart automatically when power is restored.

If your operating system supports the Wake on LAN feature, the Wake on LAN feature can turn on the server.

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.

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.

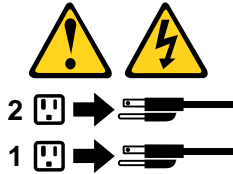
Some operating systems require an orderly shutdown before you turn off the server. See your operating-system documentation for information about shutting down the operating system.

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.



Step 1. 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.

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

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

- Step 1. Make sure that the server and the installed firmware levels support the devices that you are installing. If necessary, update the UEFI and IMM2.1 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.lenovo.com/serverproven/>.
- Step 2. Use the best practices to apply current firmware and device-driver updates for the server and optional devices. To download the *Firmware Update Guides* document, go to <http://www.ibm.com/support/entry/portal/docdisplay?Indocid=MIGR-5082923>. Additional hints and tips are available from the following website:

Lenovo support: <http://www.lenovo.com/support>

System x configuration tools: <http://www-03.ibm.com/systems/x/hardware/configtools.html>
- Step 3. Before you install optional hardware devices, make sure that the server is working correctly. Start the server and make sure that the operating system starts, if an operating system is installed, or that a 19990305 error code is displayed, indicating that an operating system was not found but the server is otherwise working correctly. If the server is not working correctly, see “Running DSA Preboot diagnostic programs” on page 66 for information about how to run diagnostics.
- Step 4. Follow the installation procedures in this chapter and use the correct tools. Incorrectly installed devices can cause system failure because of damaged pins in sockets or connectors, loose cabling, or loose components.

Instructions for Lenovo Business Partners

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

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

1. After you have confirmed that the server starts correctly and recognizes the newly installed devices and that no error LEDs are lit, run the Dynamic System Analysis (DSA) stress test. For information about using DSA, see “Lenovo Dynamic System Analysis” on page 65.
2. Shut down and restart the server multiple times to ensure that the server is correctly configured and functions correctly with the newly installed devices.
3. Save the DSA log as a file and send it to Lenovo. For information about transferring data and logs, see “Sending DSA data to Lenovo” on page 22.

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

Step 1. 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.

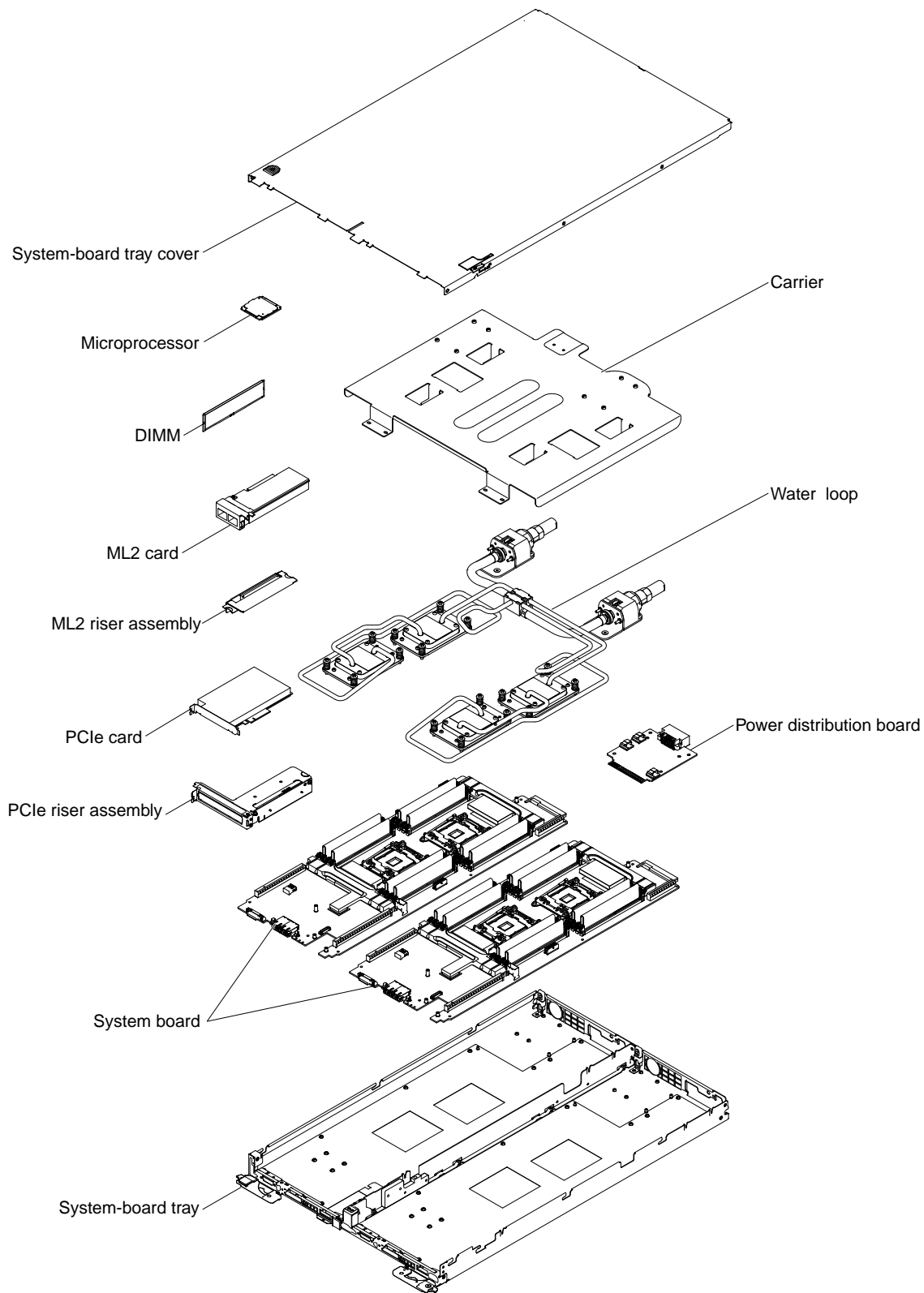


Figure 8. Server components

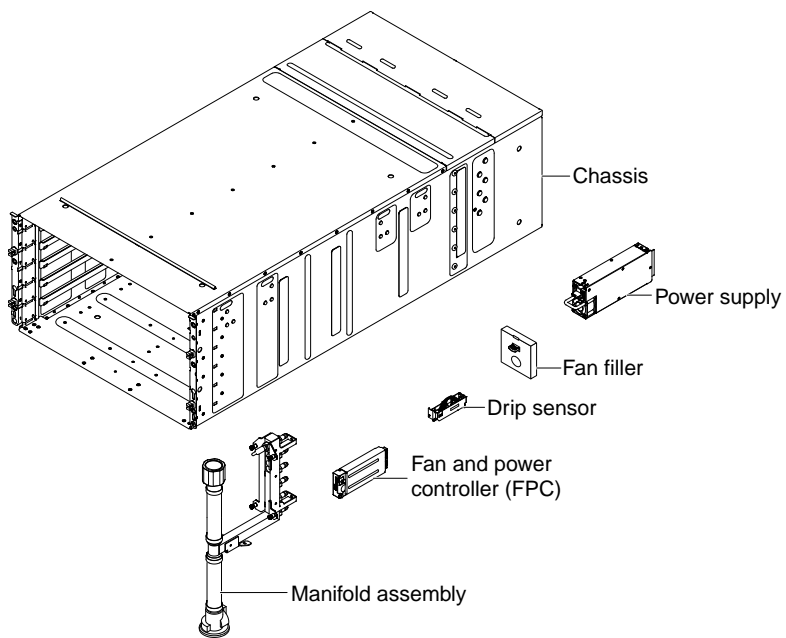


Figure 9. Chassis and manifold components

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.

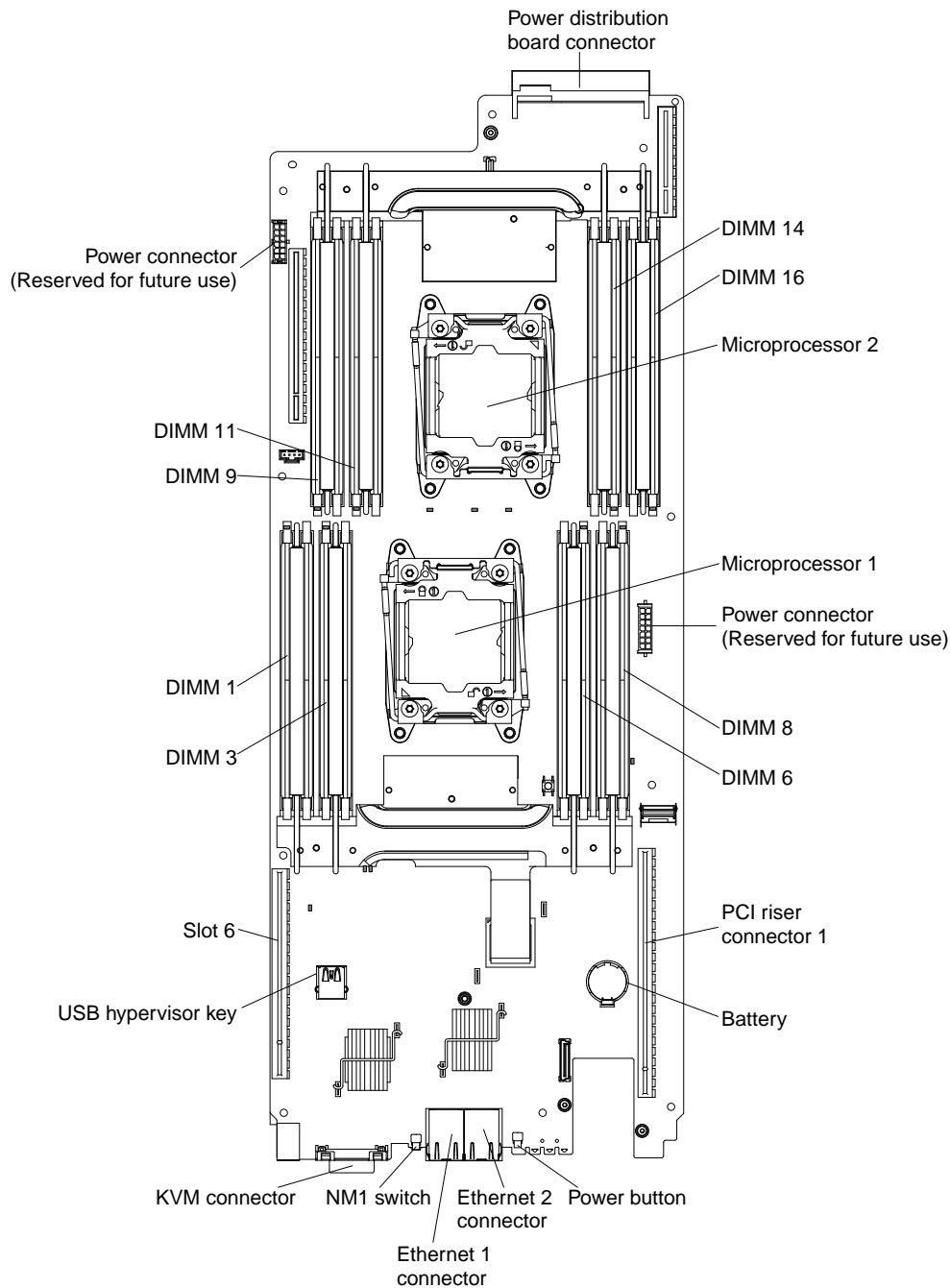


Figure 10. Internal connectors on the system board

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 19.
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.

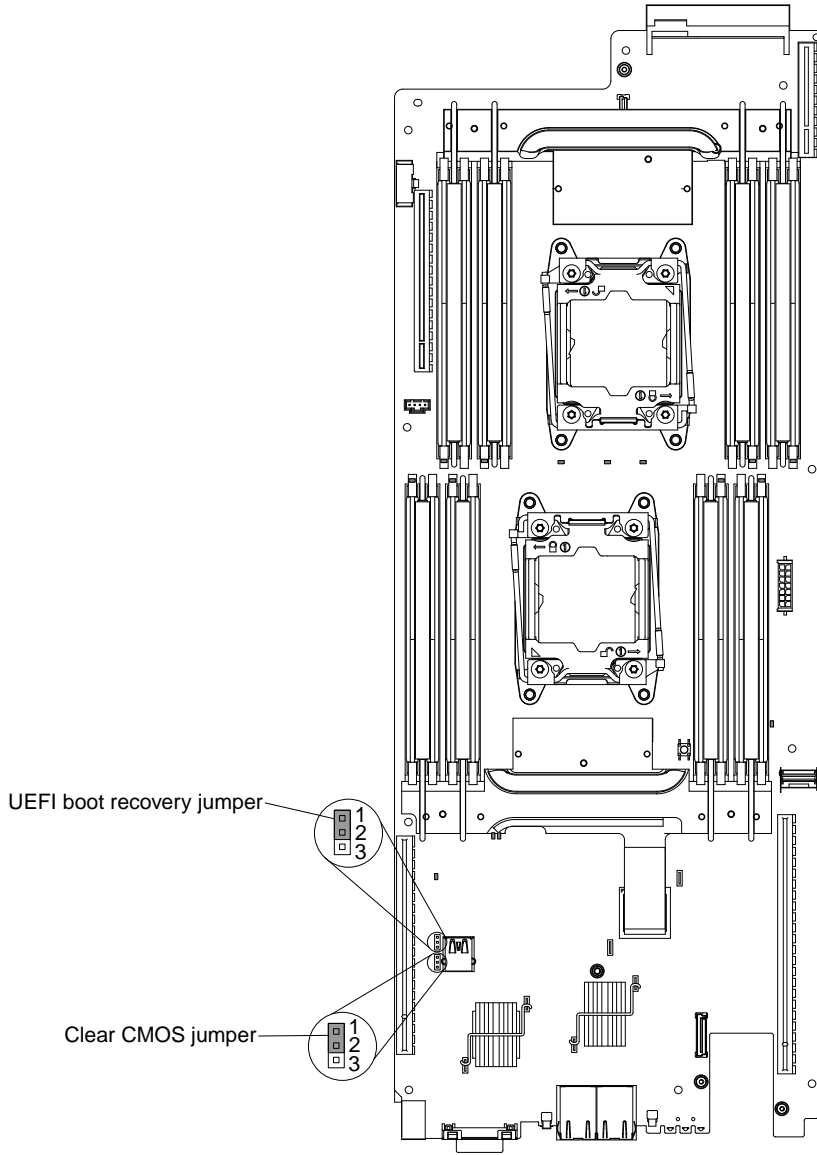


Figure 11. Location of the switches, jumpers, and buttons on the system board

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.
Notes: <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.

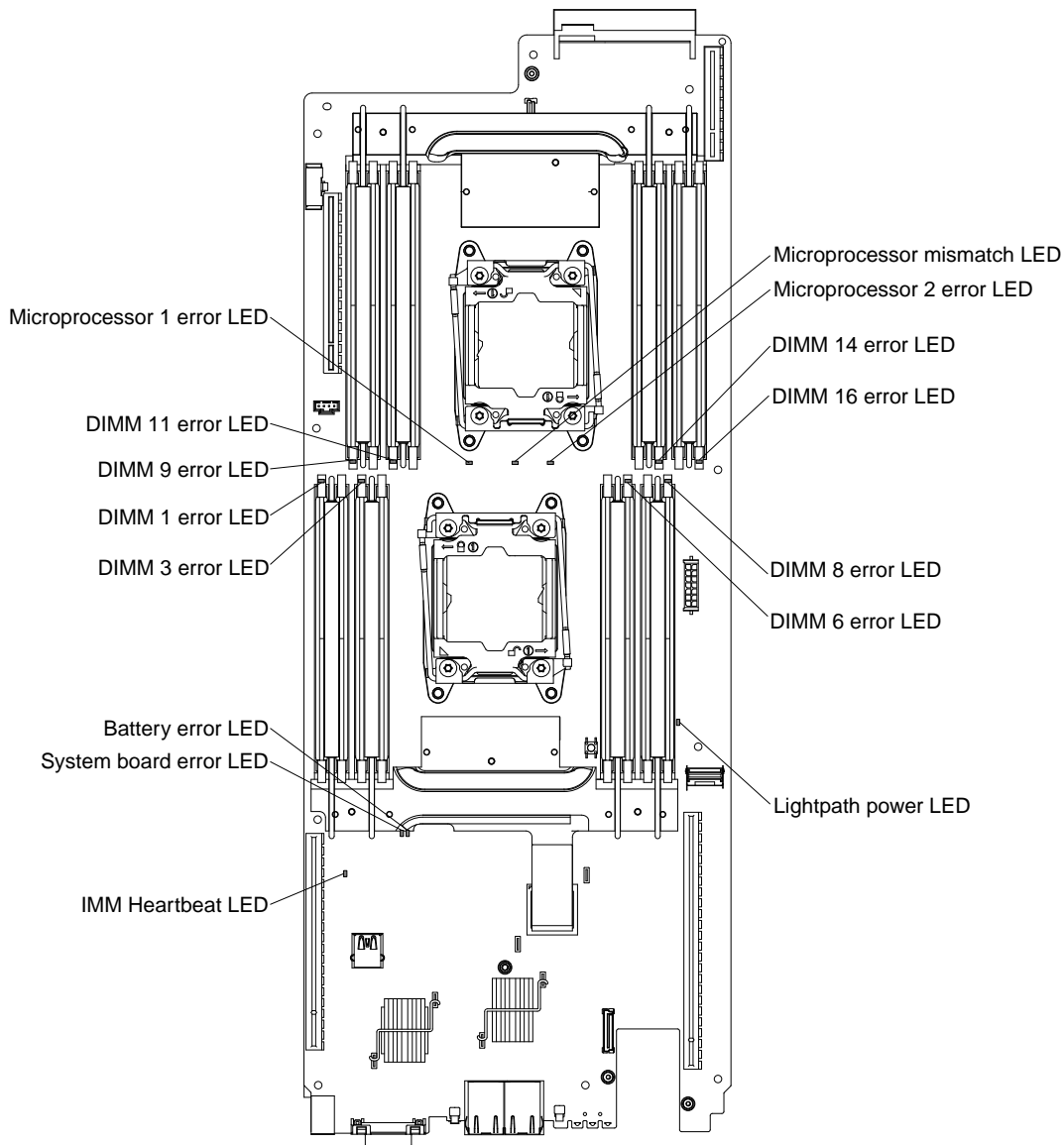


Figure 12. The LEDs on the system board

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 “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.lenovo.com/serverproven/>.

- When you install your new server, take the opportunity to download and apply the most recent firmware updates. This step will help to ensure that any known issues are addressed and that your server is ready to function at maximum levels of performance. To download firmware updates for your server, go to <http://www.ibm.com/support/fixcentral>.

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

For additional information about tools for updating, managing, and deploying firmware, see the ToolsCenter for System x and BladeCenter at <https://support.lenovo.com/us/en/documents/LNVO-CENTER>

- Before you install optional hardware, make sure that the server is working correctly. Start the server, and make sure that the operating system starts, if an operating system is installed, or that a 19990305 error code is displayed, indicating that an operating system was not found but the server is otherwise working correctly. If the server is not working correctly, see Running the “Running DSA Preboot diagnostic programs” on page 66 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.

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 <https://support.lenovo.com/us/en/documents/LNVO-CENTER> and click **UpdateXpress System Pack Installer**.

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

Be sure to separately install any listed critical updates that have release dates that are later than the release date of the 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 34.
- **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 40.
- **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” on page 41 and the *Integrated Management Module II User's Guide* at http://publib.boulder.ibm.com/infocenter/systemx/documentation/topic/com.lenovo.sysx.imm2.doc/printable_doc.html.
- **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 44.
- **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 42.
- **Ethernet controller configuration**For information about configuring the Ethernet controller, see “Configuring the Ethernet controller” on page 45.
- **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 45.

- **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 45.
- **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 46.
- **Configuring RAID arrays**For information about configuring RAID arrays, see “Configuring RAID arrays” on page 45.

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?Indocid=SERV-GUIDE>.

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

ServerGuide features

This information provides an overview of the ServerGuide features.

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

The ServerGuide program has the following features:

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

The ServerGuide program performs the following tasks:

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

Setup and configuration overview

Use this information for the ServerGuide setup and configuration.

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

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

Typical operating-system installation

This section details the ServerGuide typical operating-system installation.

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

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

1. After you have completed the setup process, the operating-system installation program starts. (You will need your operating-system CD to complete the installation.)
2. The ServerGuide program stores information about the server model, service processor, hard disk drive controllers, and network adapters. Then, the program checks the CD for newer device drivers. This information is stored and then passed to the operating-system installation program.
3. The ServerGuide program presents operating-system partition options that are based on your operating-system selection and the installed hard disk drives.
4. The ServerGuide program prompts you to insert your operating-system CD and restart the server. At this point, the installation program for the operating system takes control to complete the installation.

Installing your operating system without using ServerGuide

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

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

Using the Setup utility

Use these instructions to start the Setup utility.

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

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

Starting the Setup utility

Use this information to start up the Setup utility.

To start the Setup utility, complete the following steps:

Step 1. Turn on the server.

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

- Step 2. When the prompt **<F1> Setup** is displayed, press F1. If you have set an administrator password, you must type the administrator password to access the full Setup utility menu. If you do not type the administrator password, a limited Setup utility menu is available.
- Step 3. Select settings to view or change.

Setup utility menu choices

Use the Setup utility main menu to view and configure server configuration data and settings.

The following choices are on the Setup utility main menu for the UEFI. Depending on the version of the firmware, some menu choices might differ slightly from these descriptions.

- **System Information**

Select this choice to view information about the server. When you make changes through other choices in the Setup utility, some of those changes are reflected in the system information; you cannot change settings directly in the system information. This choice is on the full Setup utility menu only.

- **System Summary**

Select this choice to view configuration information, including the ID, speed, and cache size of the microprocessors, machine type and model of the server, the serial number, the system UUID, and the amount of installed memory. When you make configuration changes through other options in the Setup utility, the changes are reflected in the system summary; you cannot change settings directly in the system summary.

- **Product Data**

Select this choice to view the system-board identifier, the revision level or issue date of the firmware, the integrated management module 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.

Notes:

- Legacy mode is not supported under Microsoft Windows Server 2012 and Microsoft Windows Server 2012 R2
- In the legacy mode, the system has limited ROM space for installed options. Legacy PXE boot supports up to four network interface card (NIC) ports. If more than four NIC ports are occupied, legacy PXE boot will not be attempted on the fifth NIC port and following ports. There are two ways to enable legacy PXE boot on the desired NIC ports:
 1. Prioritize the desired NIC connectors by changing the **ROM execution Order**.
 - The path to **ROM execution Order**: **Main menu>System Settings>Devices and I/O Ports>Set Option ROM Execution Order>ROM execution Order**
 2. Disable the NIC connector's legacy option ROM that you do not use from the **Enable/Disable Adapter Option ROM Support** menu to prioritize the desired NIC port to be 4 functional ports.
 - The path to **Enable/Disable Adapter Option ROM Support**: **Main menu>System Settings>Devices and I/O Ports>Enable/Disable Adapter Option ROM support**

– Force Legacy Video on Boot

Select this choice to force INT video support, if the operating system does not support UEFI video output standards.

– Rehook INT 19h

Select this choice to enable or disable devices from taking control of the boot process. The default is **Disable**.

– Legacy Thunk Support

Select this choice to enable or disable UEFI to interact with PCI mass storage devices that are non-UEFI compliant. The default is **Enable**.

– Infinite Boot Retry

Select this choice to enable or disable UEFI to infinitely retry the legacy boot order. The default is **Disable**.

– BBS Boot

Select this choice to enable or disable legacy boot in BBS manner. The default is **Enable**.

– System Security

Select this option to view or change the following system security configuration.

– Physical Presence Policy Configuration

Select this choice to choose from the following Physical Presence Policy options.

- **Enable/Disable**: select this option to enable/disable Physical Presence Policy. Default is **Enable**.
- **Asserted**: select this option to set Physical Presence for a duration (in minutes) or turn it off. Default is **De-asserted**.
- **Input minutes for assertion**: select this option to input a number from 0~100 which stands for the number of minutes Remote Physical Presence is asserted. Physical Presence Policy has to be enabled before this option is available.

- **Refresh assert status:** select this option to view the current status of asserting.
- **Rollback Configuration**
Select this choice to allow (enable)/forbid(disable) rolling back to an older version of UEFI. Default is **Enable**.
- **Secure Boot Configuration**
Select this choice to choose from the following Secure Boot options.
 - **Enable/Disable:** select this option to enable/disable Secure Boot. Default is **Disable**.
 - **Secure Boot Mode:** select this option to choose a mode of Secure Boot. Default is **Standard Mode**.
 - **Standard Mode:** standard mode of Secure Boot.
 - **Custom Secured Boot Mode:** the following options are available in this mode:
 - **Display Secure Boot Option ROM error:** to show a list of devices in the server that are not signed for Secure Boot.
 - **PK (platform key) options:** to enroll/delete PK
 - **KEK (Key Enrollment Key) options:** to enroll/delete KEK
 - **DB (Signatures Database) options:** to enroll/delete DB
 - **DBX (Revoked Signatures Database) options:** to enroll/delete DBX
- **Trusted Platform Module (TPM 1.2/2.0)**
The node supports both TPM 1.2 and 2.0. Select this choice to view, change the settings of TPM 1.2/2.0, or update TPM firmware from 1.2 to 2.0/2.0 to 1.2.
 - **Update to TPM 2.0 Complaint (TPM 1.2)/Update to TPM 1.2 Complaint (TPM 2.0):** to update TPM from 1.2 to 2.0 or from 2.0 to 1.2. System reboot is required to complete this procedure.

CAUTION:

 1. **Due to security consideration, do not boot a legacy OS when upgrading TPM chip firmware from 1.2 to 2.0.**
 2. **The maximal number of TPM firmware updates is 128, and TPM version cannot be updated any more after the limit is reached.**
 - **TPM Firmware Version:** to view current TPM firmware version.
 - **TPM Physical Presence:** to view TPM physical presence.
 - **TPM Device State (TPM1.2 only):** to activate/deactivate TPM.
 - **Refresh TPM status:** to get the current status of TPM.
 - **TPM Force Clear (TPM 1.2)/TPM2 Operation (TPM 2.0):** to force clearing TPM data.
- **Integrated Management Module**
Select this choice to view or change the settings for the integrated management module.
 - **Power Restore Policy**
Select this choice to set the mode of operation after the power lost.
 - **Commands on USB Interface**
Select this choice to enable or disable the Ethernet over USB interface on IMM. The default is **Enable**.
 - **Network Configuration**

Select this choice to view the system management network interface port, the IMM MAC address, the current IMM IP address, and host name; define the static IMM IP address, subnet mask, and gateway address, specify whether to use the static IP address or have DHCP assign the IMM2 IP address, save the network changes, and reset the IMM.

- **Reset IMM to Defaults**

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

- **Reset IMM**

Select this choice to reset IMM.

- **Recovery**

Select this choice to view or change the system recovery parameters.

- **POST Attempts**

Select this choice to view or change the number of attempts to POST.

- **POST Attempts Limit**

Select this choice to view or change the Nx boot failure parameters.

- **System Recovery**

Select this choice to view or change system recovery settings.

- **POST Watchdog Timer**

Select this choice to view or enable the POST watchdog timer.

- **POST Watchdog Timer Value**

Select this choice to view or set the POST loader watchdog timer value.

- **Reboot System on NMI**

Select this choice to enable or disable restarting the system whenever a nonmaskable interrupt (NMI) occurs. **Enable** is the default.

- **Halt on Severe Error**

Select this choice to enable or disable the system from booting into OS, displaying the POST event viewer whenever a severe error was detected. **Disable** is the default.

- **Storage**

Select this choice to view or change the storage device settings.

- **Network**

Select this choice to view or change the network device options, such as iSCSI.

- **Drive Health**

Select this choice to view the status of the controllers installed in the server.

- **Date and Time**

Select this choice to set the date and time in the server, in 24-hour format (*hour:minute:second*).

This choice is on the full Setup utility menu only.

- **Start Options**

Select this choice to view or change the start options, including the startup sequence, keyboard NumLock state, PXE boot option, and PCI device boot priority. Changes in the startup options take effect when you start the server.

The startup sequence specifies the order in which the server checks devices to find a boot record. The server starts from the first boot record that it finds. If the server has Wake on LAN hardware and software and the operating system supports Wake on LAN functions, you can specify a startup sequence for the Wake on LAN functions. For example, you can define a startup sequence that checks for a disc in the CD-RW/DVD drive, then checks the hard disk drive, and then checks a network adapter.

This choice is on the full Setup utility menu only.

- **Boot Manager**

Select this choice to view, add, delete, or change the device boot priority, boot from a file, select a one-time boot, or reset the boot order to the default setting.

- **System Event Logs**

Select this choice to enter the System Event Manager, where you can view the POST event log and the system-event log. You can use the arrow keys to move between pages in the error log. This choice is on the full Setup utility menu only.

The POST event log contains the most recent error codes and messages that were generated during POST.

The system-event log contains POST and system management interrupt (SMI) events and all events that are generated by the baseboard management controller that is embedded in the integrated management module (IMM).

Important: If the system-error LED on the front of the server is lit but there are no other error indications, clear the system-event log. Also, after you complete a repair or correct an error, clear the system-event log to turn off the system-error LED on the front of the server.

- **POST Event Viewer**

- Select this choice to enter the POST event viewer to view the POST error messages.

- **System Event Log**

- Select this choice to view the system event log.

- **Clear System Event Log**

- Select this choice to clear the system event log.

- **User Security**

Select this choice to set, change, or clear passwords.

You can set, change, and delete a power-on password and an administrator password through this selection. If you set a power-on password, you must type the power-on password to complete the system startup and to have access to the Configuration/Setup utility menu.

A password must contain 6 to 20 characters. You can use any combination of alphabetic and numeric characters for passwords. Keep a record of your password in a secure place.

If you forget the power-on password, you can regain access to the compute node by using the power-on password override switch (see “System-board switches and jumpers” on page 25).

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.

You can also regain access to the compute node by removing the system battery and then reinstalling it (see “Removing the system battery” on page 160 and “Replacing the system battery” on page 162).

Important: Removing the system battery clears the settings in system memory.

- **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.

Using the Boot Manager

Use this information for the Boot Manager.

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

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

Step 1. Turn off the server.

Step 2. Restart the server.

Step 3. When the prompt <F12> Select Boot Device is displayed, press F12.

Step 4. Use the Up arrow and Down arrow keys to select an item from the menu and press Enter.

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

Starting the backup server firmware

Use this information to start the backup server firmware.

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

To force the server to start from the backup copy, turn off the server; then, 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 <https://support.lenovo.com/us/en/documents/LNVO-CENTER> 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.

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

Step 1. Turn on the server.

Note: Approximately 20 seconds after the server is connected to AC power, the power-control button becomes active.

Step 2. When the prompt <F1> Setup is displayed, press F1. If you have set an administrator password, you must type the administrator password to access the full Setup utility menu. If you do not type the administrator password, a limited Setup utility menu is available.

Step 3. Select **System Settings → Integrated Management Module**, then set **Power Restore Policy** setting to Restore.

Step 4. Go back to **System Configuration and Boot Management → Save Settings**.

Step 5. Go back and check the **Power Policy** setting to verify that it is set to Restore (the default).

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

Using the integrated management module

The integrated management module (IMM) is a second generation of the functions that were formerly provided by the baseboard management controller hardware. It combines service processor functions, video controller, and remote presence function in a single chip.

The IMM supports the following basic systems-management features:

- Active Energy Manager.
- Alerts (in-band and out-of-band alerting, PET traps - IPMI style, SNMP, e-mail).
- Auto Boot Failure Recovery (ABR).
- Automatic microprocessor disable on failure and restart in a two-microprocessor configuration when one microprocessor signals an internal error. When one of the microprocessors fail, the server will disable the failing microprocessor and restart with the other microprocessor.
- Automatic Server Restart (ASR) when POST is not complete or the operating system hangs and the operating system watchdog timer times-out. The IMM might be configured to watch for the operating system watchdog timer and reboot the system after a timeout, if the ASR feature is enabled. Otherwise, the IMM allows the administrator to generate a nonmaskable interrupt (NMI) by pressing an NMI button on the light path diagnostics panel for an operating-system memory dump. ASR is supported by IPMI.
- Boot sequence manipulation.
- Command-line interface.
- Configuration save and restore.
- DIMM error assistance. The Unified Extensible Firmware Interface (UEFI) disables a failing DIMM that is detected during POST, and the IMM lights the associated system error LED and the failing DIMM error LED.
- Environmental monitor with fan speed control for temperature, voltages, fan failure, power supply failure, and power backplane failure.
- Intelligent Platform Management Interface (IPMI) Specification V2.0 and Intelligent Platform Management Bus (IPMB) support.

- Invalid system configuration (CONFIG) LED support.
- 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 IMM firmware flash updates.
- Serial over LAN (SOL).
- Serial port redirection over telnet or ssh.
- SMI handling
- System event log (SEL) - user readable event log.

The IMM also provides the following remote server management capabilities through the OSA SMBridge management utility program:

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

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

- **Serial over LAN**

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

For more information about IMM, see the *Integrated Management Module II User's Guide* at http://publib.boulder.ibm.com/infocenter/systemx/documentation/topic/com.lenovo.sysx.imm2.doc/printable_doc.html.

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.

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:

- Step 1. Take the last 12 characters on the IMM2.1 MAC address (for example, 5CF3FC5EAAD0).
- Step 2. Separate the number into pairs of hexadecimal characters (for example, 5C:F3:FC:5E:AA:D0).
- Step 3. Separate the first six and last six hexadecimal characters.
- Step 4. Add “FF” and “FE” in the middle of the 12 characters (for example, 5C F3 FC FF FE 5E AA D0).
- Step 5. Convert the first pair of hexadecimal characters to binary (for example, 5=0101, C=1100, which results in 01011100 F3 FC FF FE 5E AA D0).
- Step 6. Flip the 7th binary character from left (0 to 1 or 1 to 0), which results in 01011110 F3 FF FE 5E AA D0.
- Step 7. Convert the binary back to hexadecimal (for example, 5E F3FCFFFE5EAAD0).

Obtaining the IP address for the IMM2.1

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

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:

- Step 1. Turn off the server.

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

- Step 2. When the prompt <F1> Setup is displayed, press F1. (This prompt is displayed on the screen for only a few seconds. You must press F1 quickly.) If you have set both a power-on password and an administrator password, you must type the administrator password to access the full Setup utility menu.
- Step 3. From the Setup utility main menu, select **System Settings**.
- Step 4. On the next screen, select **Integrated Management Module**.
- Step 5. On the next screen, select **Network Configuration**.
- Step 6. Find the IP address and write it down.
- Step 7. Exit from the Setup utility.

Logging on to the web interface

Use this information to log on to the web interface.

To log on to the IMM2.1 web interface, complete the following steps:

Step 1. On a system that is connected to the server, open a web browser. In the **Address** or **URL** field, type the IP address or host name of the IMM2.1 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.

Step 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.

Step 3. Click **Log in** to start the session. The System Status and Health page provides a quick view of the system status.

Note: If you boot to the operating system while in the IMM2.1 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.

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:

Step 1. Turn on the server.

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

Step 2. When the prompt <F1> Set up is displayed, press F1.

Step 3. From the Setup utility main menu, select **Boot Manager**.

Step 4. Select **Add Boot Option**; then, select **Generic Boot Option** → **Embedded Hypervisor**. Press Enter, and then select Esc.

Step 5. Select **Change Boot Order** → **Change the order**. Use the Up arrow and Down Arrow keys to select **Embedded Hypervisor** and use the plus (+) and minus (-) keys to move Embedded

Hypervisor in the boot order. When **Embedded Hypervisor** is in the correct location in the boot order, press Enter. Select **Commit Changes** and press Enter.

Step 6. Select **Save Settings** and then select **Exit Setup**.

If the embedded hypervisor flash device image becomes corrupt, you can download the image from <http://www-03.ibm.com/systems/x/os/vmware/esxi/>.

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

Configuring the Ethernet controller

Use this information to configure the Ethernet controller.

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

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

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

Enabling Features on Demand Ethernet software

Use this information to enable Features on Demand Ethernet software.

You can activate the Features on Demand (FoD) software upgrade key for Fibre Channel over Ethernet (FCoE) and iSCSI storage protocols that is integrated in the Integrated Management Module 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 <https://fod.lenovo.com/lkms>, 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 <https://fod.lenovo.com/lkms>, log in, and click **Help**.

Configuring RAID arrays

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

The specific procedure for configuring arrays depends on the RAID controller that you are using. For details, see the documentation for your RAID controller. To access the utility for your RAID controller, complete the following steps:

Step 1. Turn on the server.

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

- Step 2. When prompted, <F1 Setup> is displayed, press F1. If you have set an administrator password, you must type the administrator password to access the full Setup utility menu. If you do not type the administrator password, a limited Setup utility menu is available.
- Step 3. Select **System Settings → Storage**.
- Step 4. Press Enter to refresh the list of device drivers.
- Step 5. Select the device driver for your RAID controller and press Enter.
- Step 6. Follow the instructions in the documentation for your RAID controller.

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 <https://support.lenovo.com/us/en/documents/LNVO-ASU>.

Updating Lenovo Systems Director

Use this information to update the Lenovo Systems Director.

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

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

Installing a newer version

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

- Step 1. Check for the latest version of Lenovo Systems Director:
 - a. Go to <http://www-03.ibm.com/systems/software/director/resources.html>.
 - b. If a newer version of Lenovo Systems Director than what comes with the server is shown in the drop-down list, follow the instructions on the web page to download the latest version.
- Step 2. Install the Lenovo Systems Director program.

Installing updates with your management server is connected to the Internet

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

- Step 1. Make sure that you have run the Discovery and Inventory collection tasks.
- Step 2. On the Welcome page of the Lenovo Systems Director web interface, click **View updates**.
- Step 3. Click **Check for updates**. The available updates are displayed in a table.
- Step 4. Select the updates that you want to install, and click Install to start the installation wizard.

Installing updates with your management server is not connected to the Internet

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

- Step 1. Make sure that you have run the Discovery and Inventory collection tasks.
- Step 2. On a system that is connected to the Internet, go to <http://www.ibm.com/support/fixcentral>.
- Step 3. From the **Product family** list, select **Lenovo Systems Director**.
- Step 4. From the **Product** list, select **Lenovo Systems Director**.
- Step 5. From the **Installed version** list, select the latest version, and click **Continue**.
- Step 6. Download the available updates.
- Step 7. Copy the downloaded files to the management server.
- Step 8. On the management server, on the Welcome page of the Lenovo Systems Director web interface, click the **Manage** tab, and click **Update Manager**.
- Step 9. Click **Import updates** and specify the location of the downloaded files that you copied to the management server.
- Step 10. Return to the Welcome page of the Web interface, and click **View updates**.
- Step 11. Select the updates that you want to install, and click **Install** to start the installation wizard.

Updating the Universal Unique Identifier (UUID)

The Universal Unique Identifier (UUID) must be updated when the system board is replaced. Use the Advanced Settings Utility to update the UUID in the UEFI-based server.

The ASU is an online tool that supports several operating systems. Make sure that you download the version for your operating system. You can download the ASU from the Lenovo Web site. To download the ASU and update the UUID, complete the following steps.

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

- Step 1. Download the Advanced Settings Utility (ASU):
 - a. Go to <http://www.lenovo.com/support>.
 - b. Click on the **Downloads** tab at the top of the panel.
 - c. Under **ToolsCenter**, select **View ToolsCenter downloads**.
 - d. Select **Advanced Settings Utility (ASU)**.
 - e. Scroll down and click on the link and download the ASU version for your operating system.
- Step 2. ASU sets the UUID in the Integrated Management Module (IMM). Select one of the following methods to access the Integrated Management Module (IMM) to set the UUID:
 - Online from the target system (LAN or keyboard console style (KCS) access)
 - Remote access to the target system (LAN based)
 - Bootable media containing ASU (LAN or KCS, depending upon the bootable media)

Step 3. Copy and unpack the ASU package, which also includes other required files, to the server. Make sure that you unpack the ASU and the required files to the same directory. In addition to the application executable (asu or asu64), the following files are required:

- For Windows based operating systems:
 - *Lenovo_rndis_server_os.inf*
 - *device.cat*
- For Linux based operating systems:
 - *cdc_interface.sh*

Step 4. After you install ASU, use the following command syntax to set the UUID: `asu set SYSTEM_PROD_DATA.SysInfoUUID <uuid_value> [access_method]`

Where:

<uuid_value>

Up to 16-byte hexadecimal value assigned by you.

[access_method]

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

- Online authenticated LAN access, type the command:

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

Where:

imm_internal_ip

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

imm_user_id

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

imm_password

The IMM account password (1 of 12 accounts). The default value is 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 IMM using the online authenticated LAN access method, ASU will automatically use the unauthenticated KCS access method.

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

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

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

Example that does use the userid and password default values:

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

- Online KCS access (unauthenticated and user restricted):

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

Example:

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

The KCS access method uses the IPMI/KCS interface. This method requires that the IPMI driver be installed. Some operating systems have the IPMI driver installed by default. ASU provides the

corresponding mapping layer. See the *Advanced Settings Utility Users Guide* for more details. You can access the ASU Users Guide from the Lenovo website.

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

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

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

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

Where:

imm_external_ip

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

imm_user_id

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

imm_password

The IMM account password (1 of 12 accounts). The default value is 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 <https://support.lenovo.com/us/en/documents/LNVO-CENTER>. From the **Lenovo ToolsCenter** page, scroll down for the available tools.

Step 5. Restart the server.

Updating the DMI/SMBIOS data

Use this information to update the DMI/SMBIOS data.

- Online authenticated LAN access, type the command:

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

Where:

imm_internal_ip

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

imm_user_id

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

imm_password

The IMM account password (1 of 12 accounts). The default value is 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 IMM using the online authenticated LAN access method, ASU will automatically use the unauthenticated KCS access method.

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

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

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

Examples that do use the userid and password default values:

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

- Online KCS access (unauthenticated and user restricted): You do not need to specify a value for *access_method* when you use this access method.

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

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

1. Go to <http://www.lenovo.com/support>.
2. Click on the **Downloads** tab at the top of the panel.
3. Under **ToolsCenter**, select **View ToolsCenter downloads**.
4. Select **Advanced Settings Utility (ASU)**.
5. Scroll down and click on the link and download the ASU version for your operating system. Scroll down and look under **Online Help** to download the *Advanced Settings Utility Users Guide*.

- 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>
```

- Bootable media: Remote LAN access, type the command:

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

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

Where:

imm_external_ip

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

imm_user_id

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

imm_password

The IMM account password (1 of 12 accounts). The default value is 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 <https://support.lenovo.com/us/en/documents/LNVO-CENTER>. From the **Lenovo ToolsCenter** page, scroll down for the available tools.

Step 5. Restart the server.

Chapter 4. Troubleshooting

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

If you cannot diagnose and correct a problem by using the information in this chapter, see Appendix D “Getting help and technical assistance” on page 889 for more information.

Start here

You can solve many problems without outside assistance by following the troubleshooting procedures in this documentation and on the World Wide Web.

This document describes the diagnostic tests that you can perform, troubleshooting procedures, and explanations of error messages and error codes. The documentation that comes with your operating system and software also contains troubleshooting information.

Diagnosing a problem

Before you contact Lenovo or an approved warranty service provider, follow these procedures in the order in which they are presented to diagnose a problem with your server.

Step 1. Return the server to the condition it was in before the problem occurred.

If any hardware, software, or firmware was changed before the problem occurred, if possible, reverse those changes. This might include any of the following items:

- Hardware components
- Device drivers and firmware
- System software
- UEFI firmware
- System input power or network connections

Step 2. View the light path diagnostics LEDs and event logs.

The server is designed for ease of diagnosis of hardware and software problems.

- **Light path diagnostics LEDs:** See **Power controller indicators, controls, and connectors** of the Lenovo NeXtScale n1200 Enclosure Type 5468 Installation and Service Guide for information about using light path diagnostics LEDs.
- **Event logs:** See “Event logs” on page 62 for information about notification events and diagnosis.
- **Software or operating-system error codes:** See the documentation for the software or operating system for information about a specific error code. See the manufacturer's website for documentation.

Step 3. Run Lenovo 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 Lenovo or an 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 <https://support.lenovo.com/us/en/documents/LNVO-DSA>.

Step 4. Check for and apply code updates.

Fixes or workarounds for many problems might be available in updated UEFI firmware, device firmware, or device drivers. To display a list of available updates for the server, go to <http://www.ibm.com/support/fixcentral>.

Attention: Installing the wrong firmware or device-driver update might cause the server to malfunction. Before you install a firmware or device-driver update, read any readme and change history files that are provided with the downloaded update. These files contain important information about the update and the procedure for installing the update, including any special procedure for updating from an early firmware or device-driver version to the latest version.

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

a. Install UpdateXpress system updates.

You can install code updates that are packaged as an UpdateXpress System Pack or UpdateXpress CD image. An UpdateXpress System Pack contains an integration-tested bundle of online firmware and device-driver updates for your server. In addition, you can use Lenovo 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?Indocid=SERV-XPRESS> and “ ” on page 31. For more information about the Bootable Media Creator, see <https://support.lenovo.com/us/en/documents/LNVO-BOMC>.

Be sure to separately install any listed critical updates that have release dates that are later than the release date of the UpdateXpress System Pack or UpdateXpress image (see this step).

b. Install manual system updates.

1. Determine the existing code levels.

In DSA, click **Firmware/VPD** to view system firmware levels, or click **Software** to view operating-system levels.

2. Download and install updates of code that is not at the latest level.

To display a list of available updates for the server, go to <http://www.ibm.com/support/fixcentral>.

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

Step 5. Check for and correct an incorrect configuration.

If the server is incorrectly configured, a system function can fail to work when you enable it; if you make an incorrect change to the server configuration, a system function that has been enabled can stop working.

a. Make sure that all installed hardware and software are supported.

See <http://www.lenovo.com/serverproven/> to verify that the server supports the installed operating system, optional devices, and software levels. If any hardware or software component is not supported, uninstall it to determine whether it is causing the problem. You

must remove nonsupported hardware before you contact Lenovo or an approved warranty service provider for support.

- b. **Make sure that the server, operating system, and software are installed and configured correctly.**

Many configuration problems are caused by loose power or signal cables or incorrectly seated adapters. You might be able to solve the problem by turning off the server, reconnecting cables, reseating adapters, and turning the server back on. For information about performing the checkout procedure, see “ ” on page 56. For information about configuring the server, see Chapter 3 “ ” on page 31.

Step 6. See controller and management software documentation.

If the problem is associated with a specific function (for example, if a RAID hard disk drive is marked offline in the RAID array), see the documentation for the associated controller and management or controlling software to verify that the controller is correctly configured.

Problem determination information is available for many devices such as RAID and network adapters.

For problems with operating systems or Lenovo software or devices, go to <http://www.lenovo.com/support>.

Step 7. Check for troubleshooting procedures and RETAIN tips.

Troubleshooting procedures and RETAIN tips document known problems and suggested solutions. To search for troubleshooting procedures and RETAIN tips, go to <http://www.lenovo.com/support>.

Step 8. Use the troubleshooting tables.

See “ ” on page 68 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 Lenovo or an approved warranty service provider for assistance with additional problem determination and possible hardware replacement. To open an online service request, go to http://www.ibm.com/support/entry/portal/Open_service_request. Be prepared to provide information about any error codes and collected data.

Undocumented problems

If you have completed the diagnostic procedure and the problem remains, the problem might not have been previously identified. 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 Lenovo or an approved warranty service provider for assistance.

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

Service bulletins

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

To find service bulletins that are available for the NeXtScale nx360 M5 water-cooled technology tray server, go to <http://www.lenovo.com/support> 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.

Important: 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 71 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 735. If the server is halted and no error message is displayed, see “Troubleshooting by symptom” on page 68 and “Solving undetermined problems” on page 81.
- For information about power-supply problems, see “Solving power problems” on page 80, “Power problems” on page 76, and “Power-supply LEDs” on page 60.
- For intermittent problems, check the event log; see “Event logs” on page 62 and Appendix C “DSA diagnostic test results” on page 757.

Performing the checkout procedure

Use this information to perform the checkout procedure.

To perform the checkout procedure, complete the following steps:

Step 1. Is the server part of a cluster?

- **No:** Go to step Step 2 2 on page 57.
- **Yes:** Shut down all failing servers that are related to the cluster. Go to step Step 2 2 on page 57.

Step 2. Complete the following steps:

- a. Check the power supply LEDs (see “Power-supply LEDs” on page 60).
- b. Turn off the server and all external devices.
- c. Check all internal and external devices for compatibility at <http://www.lenovo.com/serverproven/>.
- d. Check all cables and power cords.
- e. Set all display controls to the middle positions.
- f. Turn on all external devices.
- g. Turn on the server. If the server does not start, see “Troubleshooting by symptom” on page 68.
- h. Check the system-error LED on the operator information panel. If it is lit, check the light path diagnostics LEDs (see “Server controls, LEDs, and power” on page 14).
- i. Check for the following results:
 - Successful completion of POST (see “POST” on page 64 for more information)
 - Successful completion of startup, which is indicated by a readable display of the operating-system desktop

Step 3. Is there a readable image on the monitor screen?

- **No:** Find the failure symptom in “Troubleshooting by symptom” on page 68; if necessary, see “Solving undetermined problems” on page 81.
- **Yes:** Run DSA (see “Running DSA Preboot diagnostic programs” on page 66).
 - If DSA reports an error, follow the instructions in Appendix C “DSA diagnostic test results” on page 757.
 - If DSA does not report an error but you still suspect a problem, see “Solving undetermined problems” on page 81.

Diagnostic tools

The section introduces available tools to help you diagnose and solve hardware-related problems.

- **Light path diagnostics**

Use light path diagnostics to diagnose system errors quickly.

- **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 62 for more information.

- **Integrated management module 2.1**

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 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” on page 41, Appendix A “Integrated Management Module 2.1 (IMM2.1) error messages” on page 217, and the *Integrated Management Module 2.1 User's Guide* at http://publib.boulder.ibm.com/infocenter/systemx/documentation/topic/com.lenovo.sysx.imm2.doc/printable_doc.html.

- **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
- IMM configuration information
- IMM environmental information
- Installed hardware, including PCI and USB information
- Installed applications and hot fixes
- Kernel modules
- Light path diagnostics status
- Microprocessor, input/output hub, and UEFI error logs
- Network interfaces and settings
- Option card driver and firmware information
- RAID controller configuration
- Service processor (integrated management module) status and configuration
- System configuration
- Vital product data, firmware, and UEFI configuration

DSA Portable creates a DSA log, which is a chronologically ordered merge of the system-event log (as the IPMI event log), the integrated management module (IMM) event log (as the ASM event log), and the operating-system event logs. You can send the DSA log as a file to Lenovo Support (when requested by Lenovo Support) or view the information as a text file or HTML file.

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

For additional information, see “Lenovo Dynamic System Analysis” on page 65 and Appendix C “DSA diagnostic test results” on page 757.

- DSA Preboot

DSA Preboot diagnostic program is stored in the integrated USB memory on the server. DSA Preboot collects and analyzes system information to aid in diagnosing server problems, as well as offering a rich

set of diagnostic tests of the major components of the server. DSA Preboot collects the following information about the server:

- Drive health information
- Event logs for ServeRAID controllers and service processors
- IMM2 configuration information
- IMM2 environmental information
- Installed hardware, including PCI and USB information
- LCD system information display panel status
- Microprocessor, input/output hub, and UEFI error logs
- Network interfaces and settings
- Option card driver and firmware information
- RAID controller configuration
- Service processor (integrated management module) status and configuration
- System configuration
- Vital product data, firmware, and UEFI configuration

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

1. Broadcom network adapter
2. Emulex network adapter
3. FusionIO storage
4. IMM I2C bus
5. LCD system information display panel
6. Intel GPU
7. LSI Controller
8. Memory modules
9. Microprocessors
10. Nvidia GPU
11. Optical devices (CD or DVD)
12. SAS or SATA drives

See “Running DSA Preboot diagnostic programs” on page 66 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 68 for more information.

Light path diagnostics

Use this information as an overview of light path diagnostics.

Light path diagnostics is a system of LEDs above the control panel and on various internal components of the compute node. When an error occurs, LEDs can be lit throughout the compute node to help identify the source of the error.

Power-supply LEDs

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.

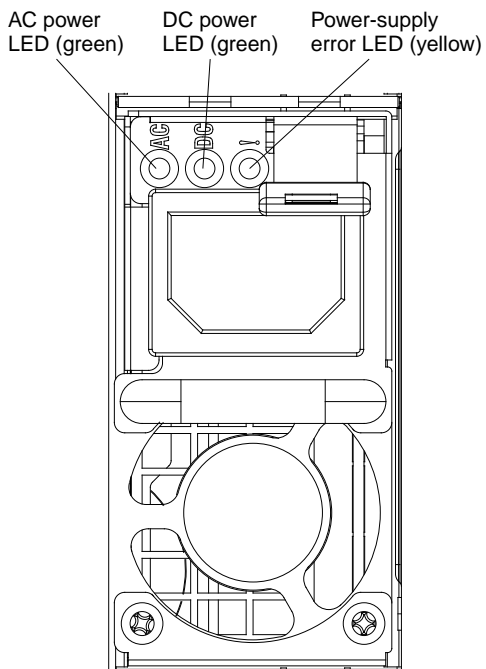


Figure 13. AC power-supply LEDs

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.		
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 76. 3. Follow actions in “Solving power problems” on page 80 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.
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 displayed in POST event log, system-event log, integrated management module (IMM2) event log, and DSA event log.

- **POST event log:** This log contains the most recent error codes and messages that were generated during POST. You can view the contents of the POST event log from the Setup utility (see “Starting the Setup utility” on page 34). For more information about POST error codes, see Appendix B “UEFI/POST diagnostic codes” on page 735.
- **System-event log:** This log contains POST and system management interrupt (SMI) events and all events that are generated by the baseboard management controller that is embedded in the integrated management module (IMM). You can view the contents of the system-event log through the Setup utility and through the Dynamic System Analysis (DSA) program (as IPMI event log).The system-event log is limited in size. When it is full, new entries will not overwrite existing entries; therefore, you must periodically clear the system-event log through the Setup utility. When you are troubleshooting an error, you might have to save and then clear the system-event log to make the most recent events available for analysis. For more information about the system-event log, see Appendix A “Integrated Management Module 2.1 (IMM2.1) error messages” on page 217.

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

Some IMM sensors cause assertion events to be logged when their setpoints are reached. When a setpoint condition no longer exists, a corresponding deassertion event is logged. However, not all events are assertion-type events.

- **Integrated management module II (IMM2) event log:** This log contains a filtered subset of all IMM, POST, and system management interrupt (SMI) events. You can view the IMM event log through the IMM

web interface. For more information, see “Logging on to the web interface” on page 43. You can also view the IMM event log through the Dynamic System Analysis (DSA) program (as the ASM event log). For more information about IMM error messages, see Appendix A “Integrated Management Module 2.1 (IMM2.1) error messages” on page 217.

- **DSA event log:** This log is generated by the Dynamic System Analysis (DSA) program, and it is a chronologically ordered merge of the system-event log (as the IPMI event log), the IMM chassis-event log (as the ASM event log), and the operating-system event logs. You can view the DSA event log through the DSA program (see “Viewing event logs without restarting the server” on page 63). For more information about DSA and DSA messages, see “Lenovo Dynamic System Analysis” on page 65 and Appendix C “DSA diagnostic test results” on page 757.

Viewing event logs through the Setup utility

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

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

Step 1. Turn on the server.

Step 2. When the prompt **<F1> Setup** is displayed, press F1. If you have set both a power-on password and an administrator password, you must type the administrator password to view the event logs.

Step 3. Select **System Event 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 <https://support.lenovo.com/us/en/documents/LNVO-DSA>.

If IPMItool is installed in the server, you can use it to view the system-event log. Most recent versions of the Linux operating system come with a current version of IPMItool. For an overview of IPMI, go to <http://www.ibm.com/developerworks/linux/blueprints/> and click **Using Intelligent Platform Management Interface (IPMI) on 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 43.

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 43 and “Logging on to the web interface” on page 43.
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 66 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 63.

Clearing the event logs

Use this information to clear the event logs.

To clear the event logs, complete the following steps.

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

- Step 1. Turn on the server.
- Step 2. When the prompt **<F1> Setup** is displayed, press F1. If you have set both a power-on password and an administrator password, you must type the administrator password to view the event logs.
- Step 3. To clear the IMM2.1 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 735 for more information.

If POST detects a problem, an error message is sent to the POST event log, see “Event logs” on page 62 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 757.

If you cannot find a problem by using DSA, see “Solving undetermined problems” on page 81 for information about testing the server.

Note: DSA Preboot might appear to be unresponsive when you start the program. This is normal operation while the program loads.

Make sure that the server has the latest version of the DSA code. To obtain DSA code and the *Dynamic System Analysis Installation and User's Guide*, go to <https://support.lenovo.com/us/en/documents/LNVO-DSA>.

DSA editions

Two editions of Dynamic System Analysis are available.

- **DSA Portable**

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

If you are able to start the server, use DSA Portable.

- **DSA Preboot**

DSA Preboot runs outside of the operating system; you must restart the server to run it. It is provided in the flash memory on the server, or you can create a bootable media such as a CD, DVD, ISO, USB, or PXE using the Lenovo ToolsCenter Bootable Media Creator (BoMC). For more details, see the BoMC *Installation and User's Guide* at <https://support.lenovo.com/us/en/documents/LNVO-BOMC>. In addition to the capabilities of the other editions of DSA, DSA Preboot includes diagnostic routines that would be disruptive to run within the operating-system environment (such as resetting devices and causing loss of

network connectivity). It has a graphical user interface that you can use to specify which diagnostics to run and to view the diagnostic and data collection results.

DSA Preboot provides diagnostics for the following system components, if they are installed:

- Emulex network adapter
- Optical devices (CD or DVD)
- Tape drives (SCSI, SAS, or SATA)
- Memory
- Microprocessor
- Checkpoint panel
- I2C bus
- SAS and SATA drives

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

For more information and to download the utilities, go to <https://support.lenovo.com/us/en/documents/LNVO-DSA>.

Running DSA Preboot diagnostic programs

Use this information to run the DSA Preboot diagnostic programs.

Note: The DSA memory test might take up to 30 minutes to run. If the problem is not a memory problem, skip the memory test.

To run the DSA Preboot diagnostic programs, complete the following steps:

Step 1. If the server is running, turn off the server and all attached devices.

Step 2. Turn on all attached devices; then, turn on the server.

Step 3. When the prompt **<F2> Diagnostics** is displayed, press F2.

Note: The DSA Preboot diagnostic program might appear to be unresponsive for an unusual length of time when you start the program. This is normal operation while the program loads. The loading process may take up to 10 minutes.

Step 4. Optionally, select **Quit to DSA** to exit from the stand-alone memory diagnostic program.

Note: After you exit from the stand-alone memory diagnostic environment, you must restart the server to access the stand-alone memory diagnostic environment again.

Step 5. Type **gui** to display the graphical user interface, or type **cmd** to display the DSA interactive menu.

Step 6. Follow the instructions on the screen to select the diagnostic test to run.

If the diagnostic programs do not detect any hardware errors but the problem remains during normal server operation, a software error might be the cause. If you suspect a software problem, see the information that comes with your software.

A single problem might cause more than one error message. When this happens, correct the cause of the first error message. The other error messages usually will not occur the next time you run the diagnostic programs.

If the server stops during testing and you cannot continue, restart the server and try running the DSA Preboot diagnostic programs again. If the problem remains, replace the component that was being tested when the server stopped.

Diagnostic text messages

Diagnostic text messages are displayed while the tests are running.

A diagnostic text message contains one of the following results:

Passed: The test was completed without any errors.

Failed: The test detected an error.

Aborted: The test could not proceed because of the server configuration

Additional information concerning test failures is available in the extended diagnostic results for each test.

Viewing the test log results and transferring the DSA collection

Use this information to view the test log results and transferring the DSA collection.

To view the test log for the results when the tests are completed, click the **Success** link in the Status column, if you are running the DSA graphical user interface, or type `:x` to exit the Execute Tests menu, if you are running the DSA interactive menu, or select **Diagnostic Event Log** in the graphical user interface. To transfer DSA Preboot collections to an external USB device, type the `copy` command in the DSA interactive menu.

Step 1. If you are running the DSA graphical user interface (GUI), click the **Success** link in the Status column.

Step 2. If you are running the DSA interactive menu (CLI), type `:x` to exit the Execute Tests menu; then, select **completed tests** to view the results.

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

Automated service request (call home)

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

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

Lenovo Electronic Service Agent

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

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

Error messages

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

See Appendix B “UEFI/POST diagnostic codes” on page 735, Appendix A “Integrated Management Module 2.1 (IMM2.1) error messages” on page 217, and Appendix C “DSA diagnostic test results” on page 757 for more information.

Troubleshooting by symptom

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

If you cannot find a solution to the problem in these tables, see Appendix C “DSA diagnostic test results” on page 757 for information about testing the server and “Running DSA Preboot diagnostic programs” on page 66 for additional information about running DSA Preboot program. For additional information to help you solve problems, see “Start here” on page 53.

If you have just added new software or a new optional device and the server is not working, complete the following steps before you use the troubleshooting tables:

- Step 1. Check the system-error LED on the operator information panel; if it is lit, check the light path diagnostics LEDs.
- Step 2. Remove the software or device that you just added.
- Step 3. Run Lenovo Dynamic System Analysis (DSA) to determine whether the server is running correctly (for information about using DSA, see Appendix C “DSA diagnostic test results” on page 757).
- Step 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://www.lenovo.com/support> 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 86 for more information.2. See “Recovering the server firmware (UEFI update failure)” on page 83 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://www.lenovo.com/support> 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. 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://www.lenovo.com/support> 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 62).

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://www.lenovo.com/support> 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://www.lenovo.com/support> 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
<p>The amount of system memory that is displayed is less than the amount of installed physical memory.</p>	<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 66). 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
<p>Multiple rows of DIMMs in a branch are identified as failing.</p>	<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://www.lenovo.com/support> 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 and video problems

Use this information to solve monitor and video 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://www.lenovo.com/support> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

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.
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. The IMM2 remote presence function is disabled if you install an optional video adapter. To use the IMM2 remote presence function, remove the optional video adapter. 3. If the server installed with the graphical adapters while turning on the server, the Lenovo logo displays on the screen after approximately 3 minutes. This is normal operation while the system loads. 4. 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 76. • The monitor cables are connected correctly. • The monitor is turned on and the brightness and contrast controls are adjusted correctly. 5. Make sure that the correct server is controlling the monitor, if applicable. 6. Make sure that damaged server firmware is not affecting the video; see “Updating the firmware” on page 31. 7. Observe the checkpoint LEDs on the system board; if the codes are changing, go to step 6. 8. Replace the following components one at a time, in the order shown, restarting the server each time: <ol style="list-style-type: none"> a. Monitor b. Video adapter (if one is installed) c. (Trained technician only) System board. 9. See “Solving undetermined problems” on page 81.

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

Symptom	Action
<p>The monitor works when you turn on the server, but the screen goes blank when you start some application programs.</p>	<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 66). <ul style="list-style-type: none"> • If the server passes the video diagnostics, the video is good; see “Solving undetermined problems” on page 81. • (Trained technician only) If the server fails the video diagnostics, replace the system board.
<p>The monitor has screen jitter, or the screen image is wavy, unreadable, rolling, or distorted.</p>	<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. <p>Attention: Moving a color monitor while it is turned on might cause screen discoloration.</p> <p>Move the device and the monitor at least 305 mm (12 in.) apart, and turn on the monitor.</p> <p>Notes:</p> <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 cable. 3. Replace the components listed in step 2 one at a time, in the order shown, restarting the server each time: <ol style="list-style-type: none"> a. Monitor cable b. Video adapter (if one is installed) c. Monitor d. (Trained technician only) System board.
<p>Wrong characters appear on the screen.</p>	<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 cable. 3. Replace the components listed in step 2 one at a time, in the order shown, restarting the server each time: <ol style="list-style-type: none"> a. Monitor cable b. Video adapter (if one is installed) c. Monitor

<ul style="list-style-type: none"> • 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://www.lenovo.com/support to check for technical information, hints, tips, and new device drivers or to submit a request for information. 	
Symptom	Action
	d. (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://www.lenovo.com/support> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 11. 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://www.lenovo.com/support> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 12. 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.lenovo.com/serverproven/). • 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.
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://www.lenovo.com/support> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 13. 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"> 1. Make sure that the power-control button is working correctly: <ol style="list-style-type: none"> a. Disconnect the server power cords. b. Reconnect the power cords. c. (Trained technician only) Reseat the operator information panel cable, and then repeat steps 1a and 1b. <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. 2. Make sure that the reset button is working correctly: <ul style="list-style-type: none"> • Disconnect the server power cord. • Reconnect the power cord. 3. Make sure that : <ol style="list-style-type: none"> a. The power cords are correctly connected to the server and to a working electrical outlet. b. The type of memory that is installed is correct. c. The DIMM is fully seated. d. The LEDs on the power supply do not indicate a problem. e. (Trained technician only) The microprocessors are installed in the correct sequence. 4. Reseat the following components: <ol style="list-style-type: none"> a. DIMMs b. (Trained technician only) Power-supply cables to all internal components c. (Trained technician only) Power switch connector 5. 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. Power supply c. (Trained technician only) System board 6. 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. 7. See “Power-supply LEDs” on page 60. 8. See “Solving undetermined problems” on page 81.
<p>The server does not turn off.</p>	<ol style="list-style-type: none"> 1. Determine whether you are using an Advanced Configuration and Power Interface (ACPI) or a non-ACPI operating system. If you are using a non-ACPI operating system, complete the following steps: <ol style="list-style-type: none"> a. Press Ctrl+Alt+Delete. b. Turn off the server by pressing the power-control button for 5 seconds. c. Restart the server.

Table 13. Power problems and actions (continued)

Symptom	Action
	<ol style="list-style-type: none"> d. If the server fails POST and the power-control button does not work, disconnect the power cord for 5 seconds; then, reconnect the power cord and restart the server. 2. If the problem remains or if you are using an ACPI-aware operating system, suspect the system board.
The server unexpectedly shuts down, and the LEDs on the operator information panel are not lit.	See "Solving undetermined problems" on page 81.

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://www.lenovo.com/support> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 14. 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://www.lenovo.com/support> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 15. 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 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?lnocid=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://www.lenovo.com/support> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 16. 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://www.lenovo.com/support> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

Table 17. 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 34 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.

Power problems can be difficult to solve. For example, a short circuit can exist anywhere on any of the power distribution buses. Usually, a short circuit will cause the power subsystem to shut down because of an overcurrent condition. To diagnose a power problem, use the following general procedure:

- Step 1. Turn off the server and disconnect all power cords.
- Step 2. Check for loose cables in the power subsystem. Also check for short circuits, for example, if a loose screw is causing a short circuit on a circuit board.
- Step 3. Turn on the server and check the lit LEDs on the system board (see “System-board LEDs” on page 27).
- Step 4. Turn off the server and disconnect all power cords.
- Step 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 81).
- Step 6. Reconnect all ac power cords and turn on the server. If the server starts successfully, reseat the adapters and devices one at a time until the problem is isolated.

If the server does not start from the minimum configuration, see “Power-supply LEDs” on page 60 to replace the components in the minimum configuration one at a time until the problem is isolated.

Solving Ethernet controller problems

Use this information to solve the Ethernet controller problems.

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

Try the following procedures:

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

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

Solving undetermined problems

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

If you suspect that a software problem is causing failures (continuous or intermittent), see “Software problems” on page 79.

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 83.

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

- Step 1. Turn off the server.
- Step 2. Make sure that the server is cabled correctly.
- Step 3. Remove or disconnect the following devices, one at a time, until you find the failure. Turn on the server and reconfigure it each time.
 - Any external devices.
 - Surge-suppressor device (on the server).

- Printer, mouse, and non-Lenovo devices.
- Each adapter.
- Hard disk drives.

Step 4. Turn on the server. If the problem remains, suspect the following components in the following order:

1. Power supply
2. Memory
3. Microprocessor
4. System board

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

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

Problem determination tips

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

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

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.

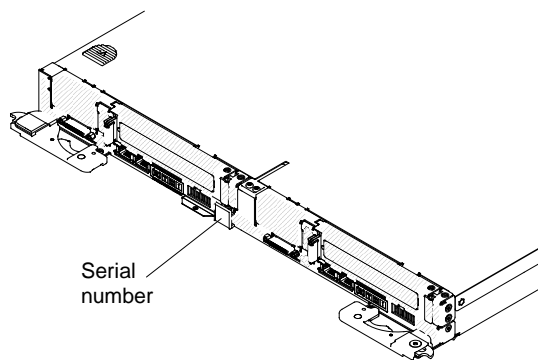


Figure 14. ID label

- 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 889 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.

Notes: You can obtain a server update package from one of the following sources:

- Download the server firmware update from the World Wide Web.
- Contact your Lenovo service representative.

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

The flash memory of the server consists of a primary bank and a backup bank. You must maintain a bootable UEFI firmware image in the backup bank. If the server firmware in the primary bank becomes corrupted, you can either manually boot the backup bank with the UEFI boot backup jumper (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.

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

- Step 1. Read the safety information that begins on “Safety” on page v and “Installation guidelines” on page 28.
- Step 2. Turn off the server, and disconnect all power cords and external cables.
- Step 3. Unlock and remove the cover (see “Removing the cover” on page 144).
- Step 4. Locate the UEFI boot backup jumper on the system board.

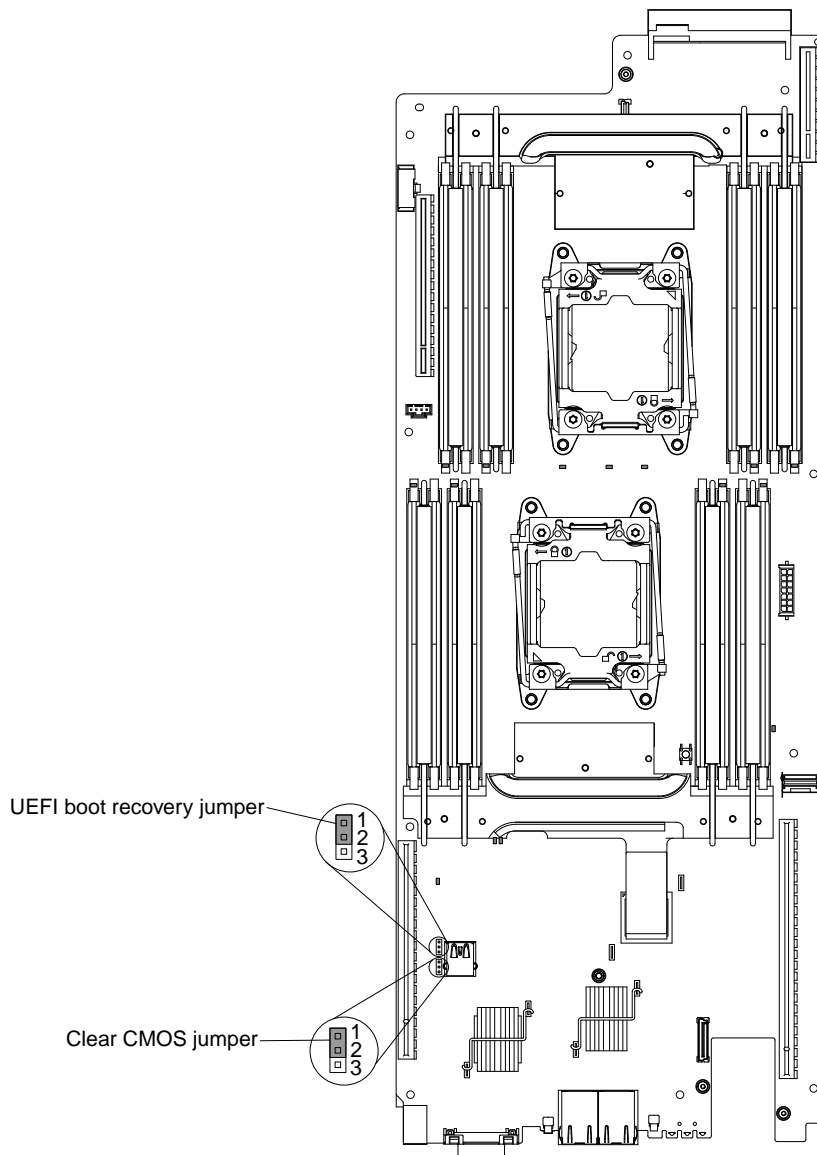


Figure 15. Location of the switches, jumpers, and buttons on the system board

- Step 5. Move the UEFI boot backup jumper from pins 1 and 2 to pins 2 and 3 to enable the UEFI recovery mode.
- Step 6. Reinstall the server cover; then, reconnect all power cords.
- Step 7. Restart the server. The system begins the power-on self-test (POST).
- Step 8. Boot the server to an operating system that is supported by the firmware update package that you downloaded.
- Step 9. Perform the firmware update by following the instructions that are in the firmware update package readme file.
- Step 10. Turn off the server and disconnect all power cords and external cables, and then remove the cover (see “Removing the cover” on page 144).
- Step 11. Move the UEFI boot backup jumper from pins 2 and 3 back to the primary position (pins 1 and 2).
- Step 12. Reinstall the cover (see “Replacing the cover” on page 144).
- Step 13. Reconnect the power cord and any cables that you removed.

- Step 14. Restart the server. The system begins the power-on self-test (POST). If this does not recover the primary bank, continue with the following steps.
- Step 15. Remove cover (see “Removing the cover” on page 144).
- Step 16. Reset the CMOS by removing the system battery (see “Removing the system battery” on page 160).
- Step 17. Leave the system battery out of the server for approximately 5 to 15 minutes.
- Step 18. Reinstall the system battery (see “Replacing the system battery” on page 162).
- Step 19. Reinstall the cover (see “Replacing the cover” on page 144).
- Step 20. Reconnect the power cord and any cables that you removed.
- Step 21. Restart the server. The system begins the power-on self-test (POST).
- Step 22. If these recovery efforts fail, contact your Lenovo service representative for support.

In-band automated boot recovery method

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

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

- Step 1. Boot the server to an operating system that is supported by the firmware update package that you downloaded.
- Step 2. Perform the firmware update by following the instructions that are in the firmware update package readme file.
- Step 3. Restart the server.
- Step 4. At the firmware splash screen, press F3 when prompted to restore to the primary bank. The server boots from the primary bank.

Out-of-band method

See the IMM2.1 documentation (*Integrated Management Module 2.1 User's Guide*) at http://publib.boulder.ibm.com/infocenter/systemx/documentation/topic/com.lenovo.sysx.imm2.doc/printable_doc.html.

Automated boot recovery (ABR)

Use this information for Automated boot recovery (ABR).

While the server is starting, if the integrated management module II detects problems with the server firmware in the primary bank, the server automatically switches to the backup firmware bank and gives you the opportunity to recover the firmware in the primary bank. For instructions for recovering the UEFI firmware, see “Recovering the server firmware (UEFI update failure)” on page 83. After you have recovered the firmware in the primary bank, complete the following steps:

- Step 1. Restart the server.
- Step 2. When the prompt **Press F3 to restore to primary** is displayed, press F3 to start the server from the primary bank.

Nx-boot failure

Use this information for Nx-boot failure.

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

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

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

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

Chapter 5. Parts listing, Lenovo 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” on page 89. For an updated parts listing, go to <http://www.lenovo.com/support>.

Replaceable server components

The replaceable server components for Lenovo NeXtScale nx360 M5 water-cooled technology tray.

Replaceable components consist of structural parts, tier 1 customer replaceable unit (CRU), tier 2 customer replaceable unit (CRU) and field replaceable units (FRUs):

- **Structural parts:** Purchase and replacement of structural parts (components, such as chassis assembly, top cover, and bezel) is your responsibility. If Lenovo acquires or installs a structural component at your request, you will be charged for the service. See “Structural parts” on page 97 for the list of structural parts.
- **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.
- **Field replaceable units (FRUs):** Only Lenovo service technicians are authorized to install or replace FRUs.

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 889.

Visit the Lenovo ServerProven website for the latest options supporting plan.

The following illustration shows the major components in the server. The illustrations in this document might differ slightly from your hardware. For a list of structural parts, see “Structural parts” on page 97.

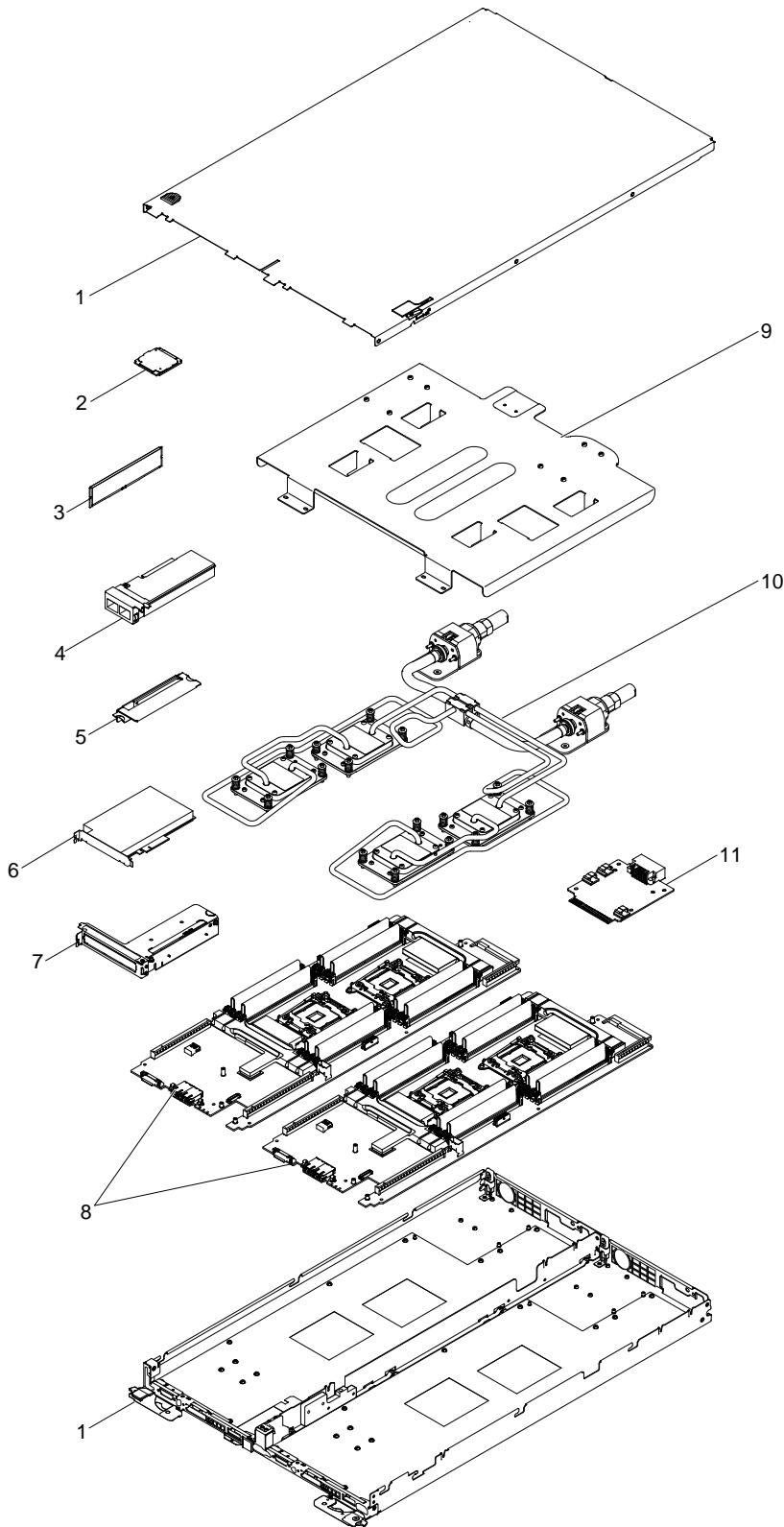


Figure 16. Server components

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

Table 18. Parts listing, Type 5467

In- dex	Description	CRU part number (Tier 1)	CRU part number (Tier 2)	FRU part number	Supports Intel Xeon E5- 2600 v3 series	Supports for Intel Xeon E5- 2600 v4 series
1	System-board tray (including top cover)			00FP312	V	V
2	Microprocessor, Intel Xeon E5-2667 v3 3.2 GHz, 20 MB, 2133 MHz, 135 W (8 core)			00AE694	V	
2	Microprocessor, Intel Xeon E5-2690 v3 2.6 GHz, 25–30 MB, 2133 MHz, 135 W (12 core)			00AE682	V	
2	Microprocessor, Intel Xeon E5-2680 v3 2.5 GHz, 25–30 MB, 2133 MHz, 120 W (12 core)			00AE683	V	
2	Microprocessor, Intel Xeon E5-2670 v3 2.3 GHz, 25–30 MB, 2133 MHz, 120 W (12 core)			00AE684	V	
2	Microprocessor, Intel Xeon E5-2697 v3 2.6 GHz, 35 MB, 2133 MHz, 145 W (14 core)			00AE680	V	
2	Microprocessor, Intel Xeon E5-2695 v3 2.3 GHz, 35 MB, 2133 MHz, 120 W (14 core)			00AE681	V	
2	Microprocessor, Intel Xeon E5-2683 v3 2.0 GHz, 35 MB, 2133 MHz, 120 W (14 core)			00KG110	V	
2	Microprocessor, Intel Xeon E5-2698 v3 2.3 GHz, 40 MB, 2133 MHz, 135 W (16 core)			00KG109	V	
2	Microprocessor, Intel Xeon E5-2698A v3 2.8 GHz, 40 MB, 2133 MHz, 165 W (16 core)			00KG112	V	
2	Microprocessor, Intel Xeon E5-2699 v3 2.3 GHz, 45 MB, 2133 MHz, 145 W (18 core)			00KC789	V	
2	Microprocessor, Intel Xeon E5-2623 v4 2.6 GHz, 10 MB, 2133 MHz, 85 W (4 core)			00M- W781		V
2	Microprocessor, Intel Xeon E5-2637 v4 3.5 GHz, 15 MB, 2400 MHz, 135 W (4 core)			00M- W779		V
2	Microprocessor, Intel Xeon E5-2603 v4 1.7 GHz, 15 MB, 1866 MHz, 85 W (6 core)			00M- W783		V
2	Microprocessor, Intel Xeon E5-2643 v4 3.4 GHz, 20 MB, 2400 MHz, 135 W (6 core)			00M- W778		V
2	Microprocessor, Intel Xeon E5-2620 v4 2.1 GHz, 20 MB, 2133 MHz, 85 W (8 core)			00YD975		V
2	Microprocessor, Intel Xeon E5-2609 v4 1.7 GHz, 20 MB, 1866 MHz, 85 W (8 core)			00M- W782		V
2	Microprocessor, Intel Xeon E5-2667 v4 3.2 GHz, 25 MB, 2400 MHz, 135 W (8 core)			00M- W776		V
2	Microprocessor, Intel Xeon E5-2630 v4 2.2 GHz, 25 MB, 2133 MHz, 85 W (10 core)			00YD974		V
2	Microprocessor, Intel Xeon E5-2630L v4 1.8 GHz, 25 MB, 2133 MHz, 55 W (10 core)			00M- W780		V

Table 18. Parts listing, Type 5467 (continued)

In- dex	Description	CRU part number (Tier 1)	CRU part number (Tier 2)	FRU part number	Supports Intel Xeon E5- 2600 v3 series	Supports for Intel Xeon E5- 2600 v4 series
2	Microprocessor, Intel Xeon E5-2640 v4 2.4 GHz, 25 MB, 2133 MHz, 90 W (10 core)			00YD973		V
2	Microprocessor, Intel Xeon E5-2650 v4 2.2 GHz, 30 MB, 2400 MHz, 105 W (12 core)			00YD972		V
2	Microprocessor, Intel Xeon E5-2650L v4 1.7 GHz, 35 MB, 2400 MHz, 65 W (14 core)			00M- W777		V
2	Microprocessor, Intel Xeon E5-2660 v4 2.0 GHz, 35 MB, 2400 MHz, 105 W (14 core)			00YD971		V
2	Microprocessor, Intel Xeon E5-2680 v4 2.4 GHz, 35 MB, 2400 MHz, 120 W (14 core)			00YD970		V
2	Microprocessor, Intel Xeon E5-2690 v4 2.6 GHz, 35 MB, 2400 MHz, 135 W (14 core)			00YD969		V
2	Microprocessor, Intel Xeon E5-2683 v4 2.1 GHz, 40 MB, 2400 MHz, 120 W (16 core)			00M- W774		V
2	Microprocessor, Intel Xeon E5-2697A v4 2.6 GHz, 40 MB, 2400 MHz, 145 W (16 core)			00YK831		V
2	Microprocessor, Intel Xeon E5-2695 v4 2.1 GHz, 45 MB, 2400 MHz, 120 W (18 core)			00M- W772		V
2	Microprocessor, Intel Xeon E5-2697 v4 2.3 GHz, 45 MB, 2400 MHz, 145 W (18 core)			00YD968		V
2	Microprocessor, Intel Xeon E5-2698 v4 2.2 GHz, 50 MB, 2400 MHz, 135 W (20 core)			00M- W771		V
2	Microprocessor, Intel Xeon E5-2699 v4 2.2 GHz, 55 MB, 2400 MHz, 145 W (22 core)			00YD967		V
3	Memory, 8 GB single-rank 1.2 V, DDR4, 2400 MHz, LP RDIMM	46W0823				V
3	Memory, 8 GB dual-rank 1.2 V, DDR4, 2133 MHz, LP RDIMM	46W0794			V	
3	Memory, 8 GB dual-rank 1.2 V, DDR4, 2400 MHz, LP RDIMM	46W0827				V
3	Memory, 16 GB dual-rank 1.2 V, DDR4, 2133 MHz, LP RDIMM	46W0798			V	
3	Memory, 16 GB dual-rank 1.2 V, DDR4, 2400 MHz, LP RDIMM	46W0831				V
3	Memory, 32 GB dual-rank 1.2 V, DDR4, 2400 MHz, LP RDIMM	46W0835				V
4	Mellanox ConnectX-3 Pro 40GbE / FDR IB VPI ML2			00FP662	V	
4	Mellanox ConnectX-4 EDR / 100GbE PCIe			00M- W480	V	

Table 18. Parts listing, Type 5467 (continued)

In- dex	Description	CRU part number (Tier 1)	CRU part number (Tier 2)	FRU part number	Supports Intel Xeon E5- 2600 v3 series	Supports for Intel Xeon E5- 2600 v4 series
5	ML2 riser cage	00KG518			V	
6	Mellanox QSFP to SFP+ adapter	00D9678			V	V
6	Mellanox Single-Port Connect-IB PCIe x16 adapter			00KG329	V	V
6	HFA, Intel OPA 100 Series Single-port PCIe 3.0 x16			00WE029		V
6	IB LAN Card			00YK810		V
7	PCIe riser assembly	00KA969			V	V
8	Node system board (supported for IBM platform)			00KG515	V	
8	Node system board (supported for Microprocessor, Intel Xeon E5-2600 v3 series)			00M- W502	V	
8	Node system board (supported for Microprocessor, Intel Xeon E5-2600 v4 series)			00YK815		V
8	Node system board (supported for specific customers only) Note: If you want to install or replace the node system board, please purchase the corresponding miscellaneous parts 01CW634.			00M- W904		V
9	Copper water loop assembly			00FP301	V	
9	Copper water loop assembly			01C- W656	V	V
	Power distribution board			00MU797	V	V
	S3510 120GB SATA 2.5" MLC Enterprise Value SSD for NeXtScale			00W- G796	V	V
	S3510 480GB SATA 2.5" MLC Enterprise Value SSD for NeXtScale			00W- G651	V	V
	S3710 200GB Enterprise Performance SATA 2.5" SSD for NeXtScale			00YC351	V	V
	S3710 400GB Enterprise Performance SATA 2.5" SSD for NeXtScale			00YC356	V	V
	500GB 7.2k 6Gbps SATA 2.5" HDD for NeXtScale			00AD036	V	V
	1TB 7.2k 6Gbps SATA 2.5" HDD for NeXtScale			00AD041	V	V
	2TB 7.2k 6Gbps SATA 2.5" HDD for NeXtScale			00NA567	V	V
	240GB Enterprise Entry SATA 2.5" SSD	01GR837			V	V
	480GB Enterprise Entry SATA 2.5" SSD	01GR842			V	V
	960GB Enterprise Entry SATA 2.5" SSD	01GR847			V	V
	240GB Enterprise Entry SATA 2.5" SSD for NeXtScale			00YC431	V	V

Table 18. Parts listing, Type 5467 (continued)

In- dex	Description	CRU part number (Tier 1)	CRU part number (Tier 2)	FRU part number	Supports Intel Xeon E5- 2600 v3 series	Supports for Intel Xeon E5- 2600 v4 series
	960GB Enterprise Entry SATA 2.5" SSD for NeXtScale			00YC441	V	V
	S3610 200GB Enterprise Value SATA 2.5" SSD			00YK258	V	V
	S3610 480GB Enterprise Value SATA 2.5" SSD			00YK263	V	V
	S3610 800GB Enterprise Value SATA 2.5" SSD			00YK268	V	V
	S3610 1200GB Enterprise Value SATA 2.5" SSD			00YK273	V	V
	S3610 1600GB Enterprise Value SATA 2.5" SSD			00YK278	V	V
	M500DC 240GB SATA 2.5" SSD 6Gb/s			00FN026	V	V
	HDD- 1TB 2.5" 7.2K 6Gbps SATA			00AD041	V	V
	Drive Cage Assembly			00KJ807	V	V
	Cable kit, hard disk drive		00KJ808		V	V
	Cam levers		00KJ825		V	V
	Fillers, IO	00FP318			V	V
	Fillers, interposer card dummy	00KA967			V	V
	Hard disk drive cage assembly			00KJ807	V	V
	Label, water-cooled technology label kit	00KJ812			V	
	Miscellaneous parts (supported for the node system board 00YK815)		01C- W634			V
	Miscellaneous parts (supported for the node system board 00MW502)		00FP316		V	
	ML2 filler bracket	00KA962			V	V
	PCI bracket dummy	00KA966			V	V
	PCI riser bracket	00KG523			V	V
	PCI riser bracket	00Y3172			V	V
	Water loop QC repair kit			00FP302	V	
	WCT label kit			01C- W641		V

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.

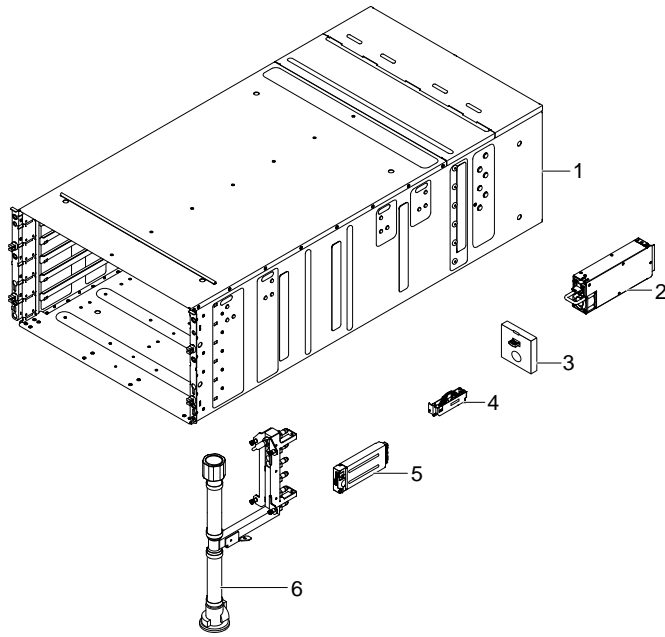


Figure 17. Chassis and manifold components

Table 19. Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469

In- d- ex	Description	CRU part number (Tier 1)	CRU part number (Tier 2)	FRU part number
1	6U chassis assembly			00AM294
2	Power supply, 1300 watt, ac	94Y8183		
2	Power supply, 1300 watt, ac	69Y5925		
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			00YE248
	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		

Table 19. Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469 (continued)

In-dex	Description	CRU part number (Tier 1)	CRU part number (Tier 2)	FRU part number
	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		
	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		
	Cable, 1.5m Mellanox passive DAC copper	00KF029		
	Cable, 3m Mellanox passive DAC copper	00KF030		
	Cable, Hybrid 3M Mellanox passive DAC copper	00KF037		
	Power cord, 2.8m, 10A/250V, C13 to IRAM 2073 (Argentina)	39M5068		
	Power cord, 4.3m, 10A/125V, C13 to NEMA 5-15P (US)	39M5076		
	Power cord, 1.8m, 10A/125V, C13 to NEMA 5-15P (US)	39M5080		
	Power cord, 2.8m, 10A/120V, C13 to NEMA 5-15P (US)	39M5081		
	Power cord, 1.8m, 10A/250V, C13 to NEMA 6-15P (US)	39M5094		
	Power cord, 2.8m, 10A/250V, C13 to NEMA 6-15P (US)	39M5095		
	Power cord, 2.8m, 10A/250V, C13 to AS/NZ 3112 (Australia/NZ)	39M5102		
	Power cord, 4.3m, 10A/250V C13 - 2P+Gnd (Europe)	39M5121		
	Power cord, 2.8m, 10A/230V, C13 to CEE7-VII (Europe)	39M5123		
	Power cord, 2.8m, 10A/250V, C13 to DK2-5a (Denmark)	39M5130		
	Power cord, 2.8m, 10A/250V, C13 to SABS 164 (South Africa)	39M5144		
	Power cord, 2.8m, 10A/250V, C13 to BS 1363/A (UK)	39M5151		
	Power cord, 2.8m, 10A/250V, C13 to SEV 1011-S24507 (Swiss)	39M5158		
	Power cord, 2.8m, 220-240V, C13 to CEI 23-16 (Italy/Chile)	39M5165		
	Power cord, 2.8m, 10A/250V, C13 to SI 32 (Israel)	39M5172		
	Power cord, 2.8m, 10A/230V, C13 to IEC 309 P+N+G (Den/Sws)	39M5179		

Table 19. Lenovo NeXtScale n1200 Enclosure Types 5468 and 5469 (continued)

In-d-ex	Description	CRU part number (Tier 1)	CRU part number (Tier 2)	FRU part number
	Power cord, 2.8m, 10A/100V C13 to JIS C-8303 (Japan)	39M5199		
	Power cord, 2.8m, 220-240V, C13 to GB 2099.1 (China)	39M5206		
	Power cord, 2.8m, 220-240V, C13 to KETI (South Korea)	39M5219		
	Power cord, 2.8M 10A/250V C13(2P+Gnd) (India)	39M5226		
	Power cord, 1.8M, 10A/125V C13 2P+Gnd (Brazil)	39M5239		
	Power cord, 2.8m, 250V, C13 to NBR 14136 (Brazil)	39M5240		
	Power cord, 1.8M 10A/250V C13 2P+Gnd (Brazil)	39M5247		
	Power cord, 2.8m, 10A/240V, C13 to CNS 10917-3 (Taiwan)	39M5254		
	Rack power cord, 1.0m C13 to C14 jumper cord	39M5374		
	Rack power cord, 1.5m, 10A/100-250V, C13 to IEC 320-C14	39M5375		
	Rack power cord, 2.8m, 10A/100-250V, C13 to IEC 320-C14	39M5377		
	Rack power cord, 2.8m, 10A/100-250V, C13 to IEC 320-C20	39M5392		
	Miscellaneous kit	00MU599		

To order a structural part, complete the following steps:

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

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

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

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 .

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

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

Power cords

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

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

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

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

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

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

Power cord part number	Used in these countries and regions
39M5206	China
39M5102	Australia, Fiji, Kiribati, Nauru, New Zealand, Papua New Guinea
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

Power cord part number	Used in these countries and regions
39M5151	Abu Dhabi, Bahrain, Botswana, Brunei Darussalam, Channel Islands, China (Hong Kong S.A.R.), Cyprus, Dominica, Gambia, Ghana, Grenada, Iraq, Ireland, Jordan, Kenya, Kuwait, Liberia, Malawi, Malaysia, Malta, Myanmar (Burma), Nigeria, Oman, Polynesia, Qatar, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Seychelles, Sierra Leone, Singapore, Sudan, Tanzania (United Republic of), Trinidad and Tobago, United Arab Emirates (Dubai), United Kingdom, Yemen, Zambia, Zimbabwe
39M5158	Liechtenstein, Switzerland
39M5165	Chile, Italy, Libyan Arab Jamahiriya
39M5172	Israel
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
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 89 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 889.

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.

Read the safety information in Safety and Installation guidelines.

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.

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 изведывање на постапката потребни се заштитни очила. (L011)

بندى : بندى
بندى : بندى
بندى : بندى
بندى : بندى
بندى : بندى
(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)

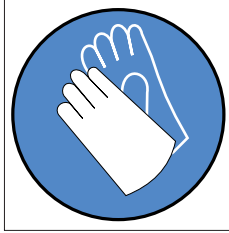
Varning: Skyddsglasögon krävs. (L011)

ཉེན་བརྒྱུད་ : བཞོལ་སྐྱོད་འདིའི་གོ་རིམ་ལ་སྲུང་སྐྱོབ་བྱས་པ་ལྡན་པའི་མིག་གཤམ་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)

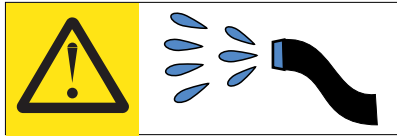
ΠΡΟΣΟΧΗ: Για τη συγκεκριμένη διαδικασία απαιτούνται ειδικά γάντια, ανθεκτικά στις χημικές ουσίες. (L014)

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)

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)

危險: 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 prúdom v dôsledku prítomnosti 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་རྒྱུ་འདི་འི་ནང་དུ་རྒྱུ་ལྷན་སྦྲེལ་གྱི་ཤིང་གཟུགས་འདུས་ཡོད་པ་སྟེ་དེ་ལས་སློབ་རྒྱུ་པའི་ཉེན་ཁ་ཡོད། ལས་པའི་སློབ་རྒྱུ་ཡོད་པ་འཕམ་རྒྱུ་གི་མར་བཞུར་བའི་གནས་ཚུལ་འོག་སློབ་ཡོད་པའི་སློབ་ཆས་ལ་བཀོལ་སྤྱོད་བྱེད་མི་ཉེན་པོ། (L016)

خەتەرلىك: بۇ مەھسۇلاتتا سۇ ياكى ئېرىتمە بولغاچقا، شۇڭا توك سوقۇۋېتىش خەۋپى مەۋجۇتدۇر. قول ھۆل ھالەتتە ۋە ياكى سۇ سرغىپ چىققان ھالەتتە، توكلۇق ئۈسكۈنىگە قارىتا ۋە ياكى توكلۇق ئۈسكۈنىنىڭ ئەتراپىدا 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.

- Step 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 141).
- Step 2. At the front of the rack, close both Eaton ball valves.

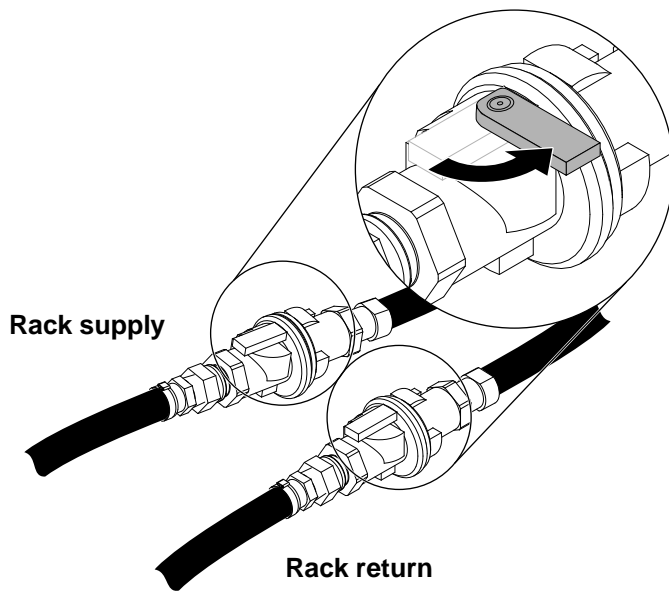


Figure 18. Eaton ball valves closed

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

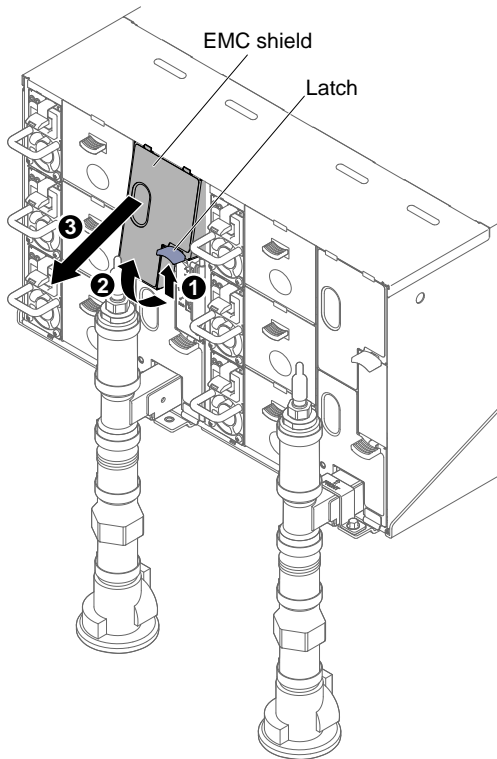


Figure 19. EMC shields removal

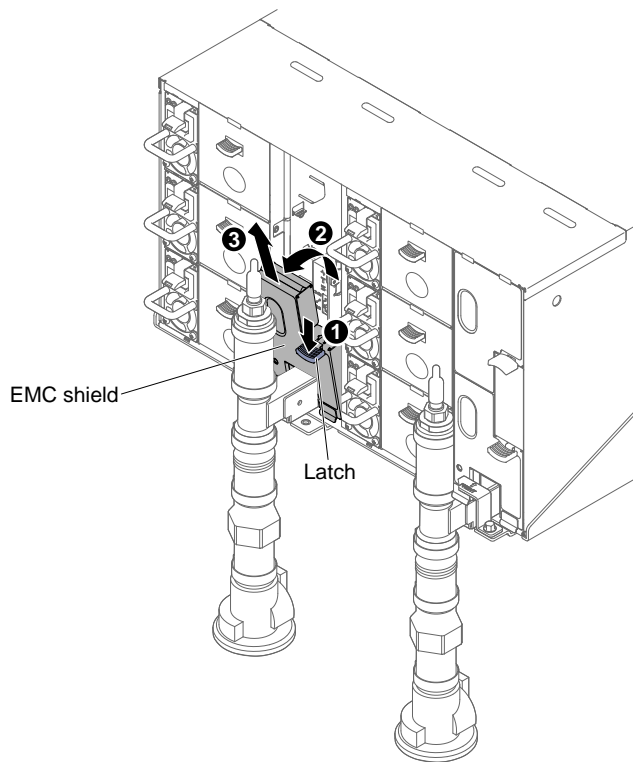


Figure 20. EMC shields removal

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

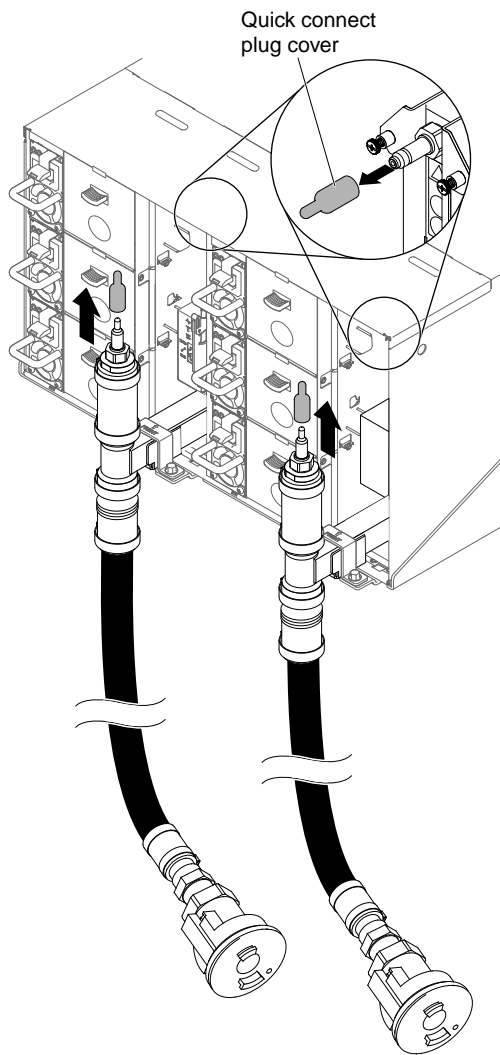


Figure 21. Quick connect plug covers removal

- Step 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).

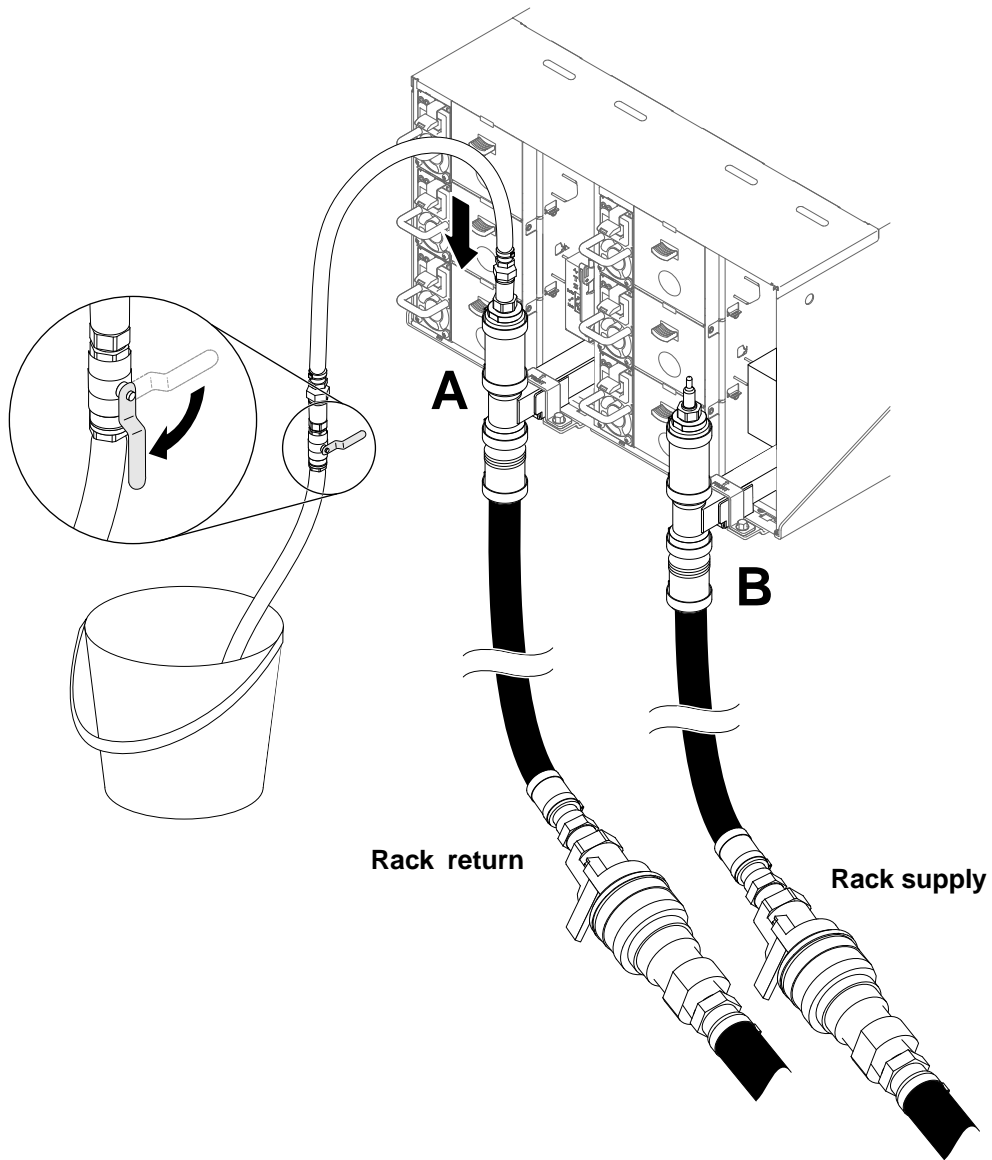


Figure 22. Water draining

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

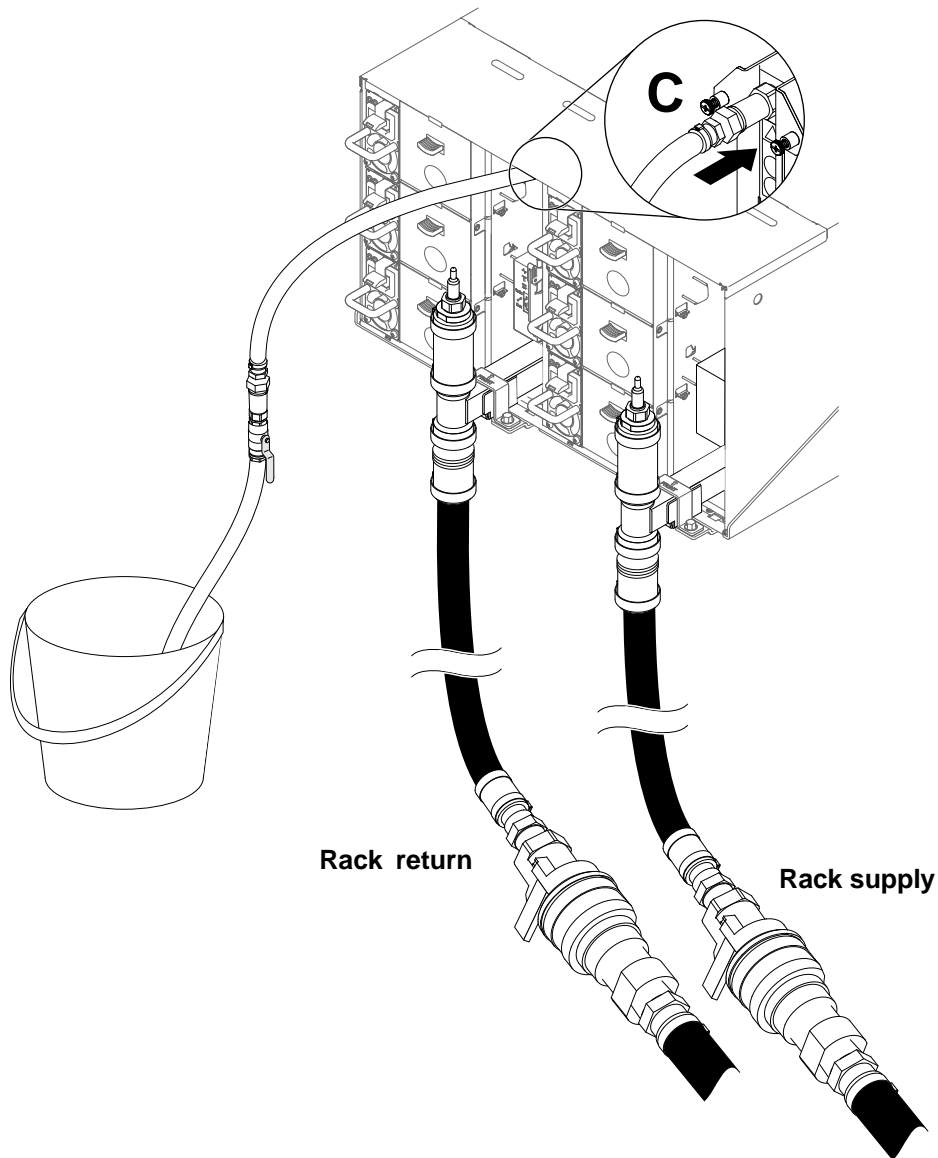


Figure 23. Quick connect socket from the drain hose tool to the top of the return side manifold connection

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

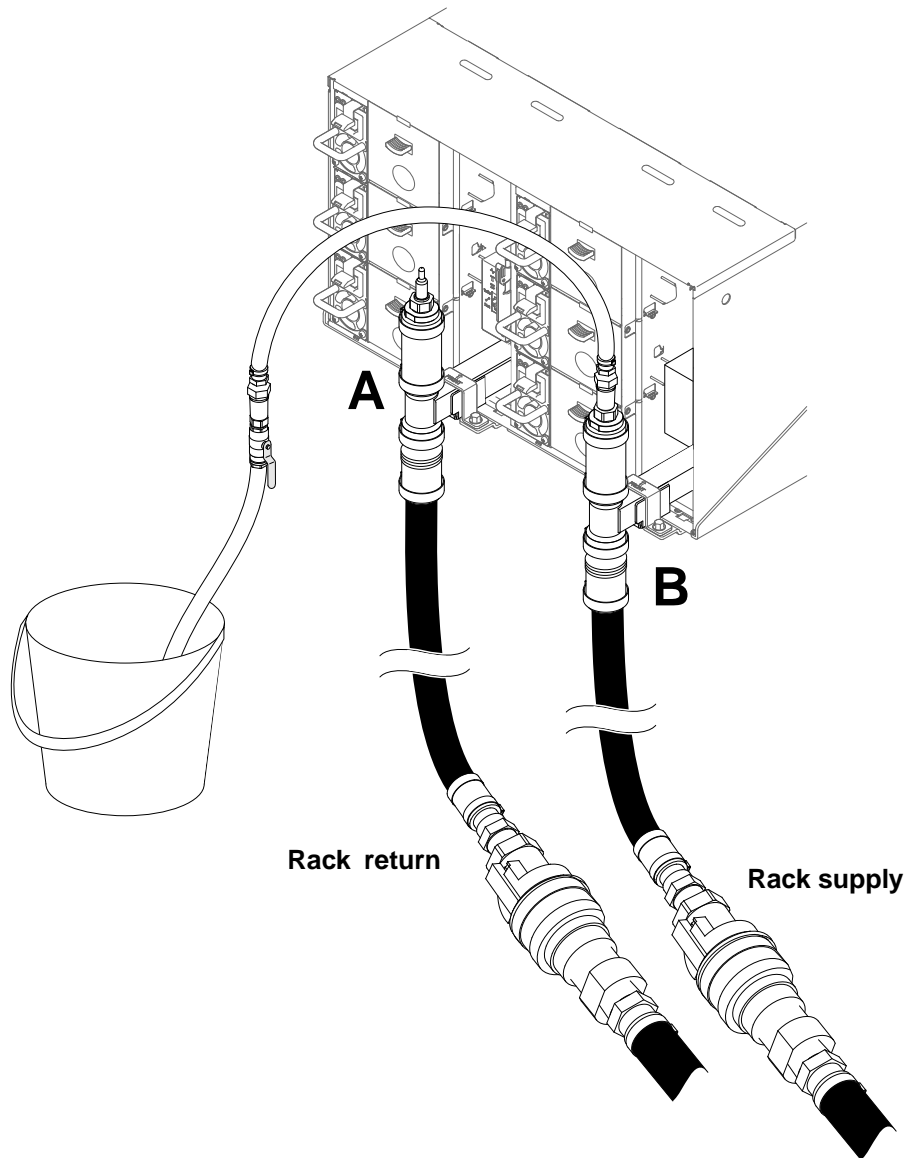


Figure 24. Water draining

- Step 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.

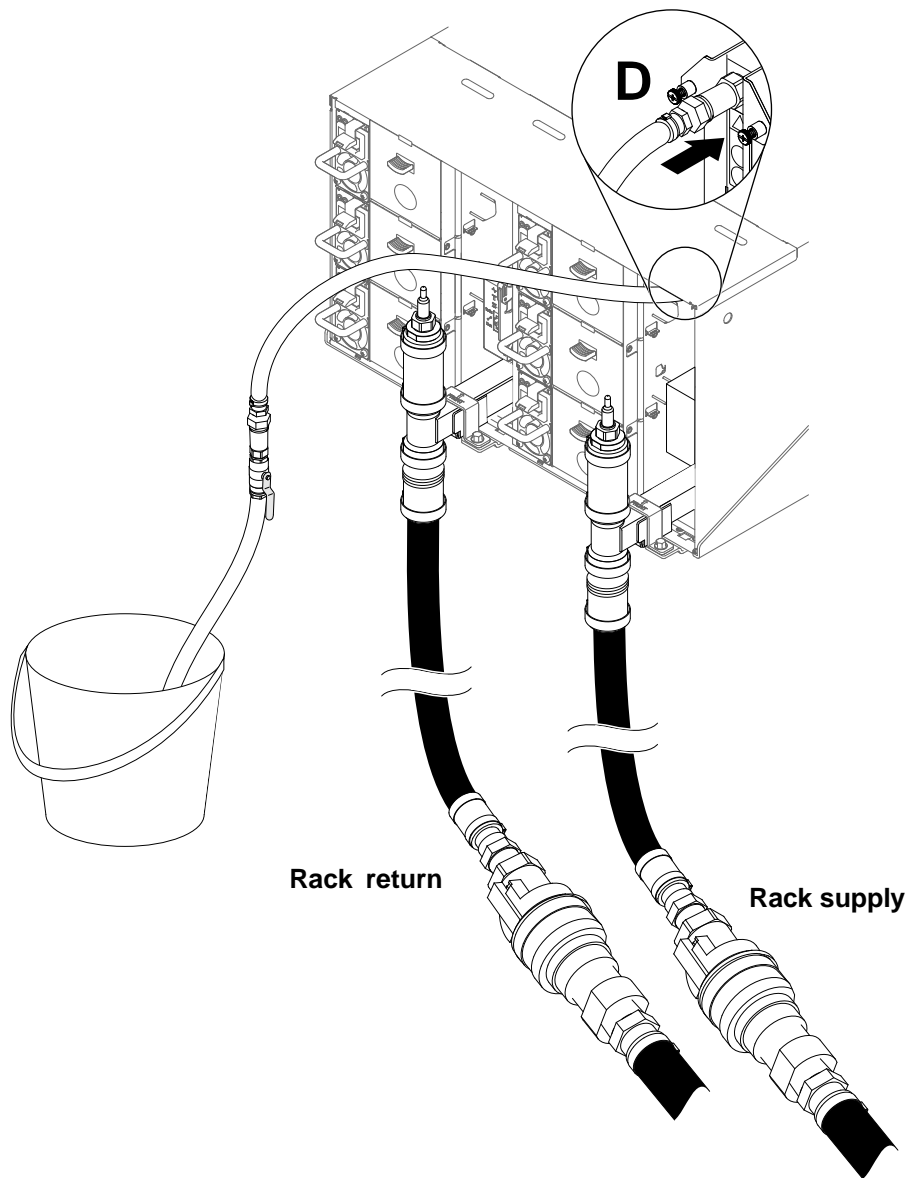


Figure 25. Quick connect socket from the drain hose tool to the top of the supply side manifold connection

- Step 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.
- Step 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.
- Step 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.
- Step 12. Determine which manifold needs to be replaced.
- Step 13. Move to the rear of the rack. Remove manifold retention bracket that is retaining the manifold (top chassis position only).

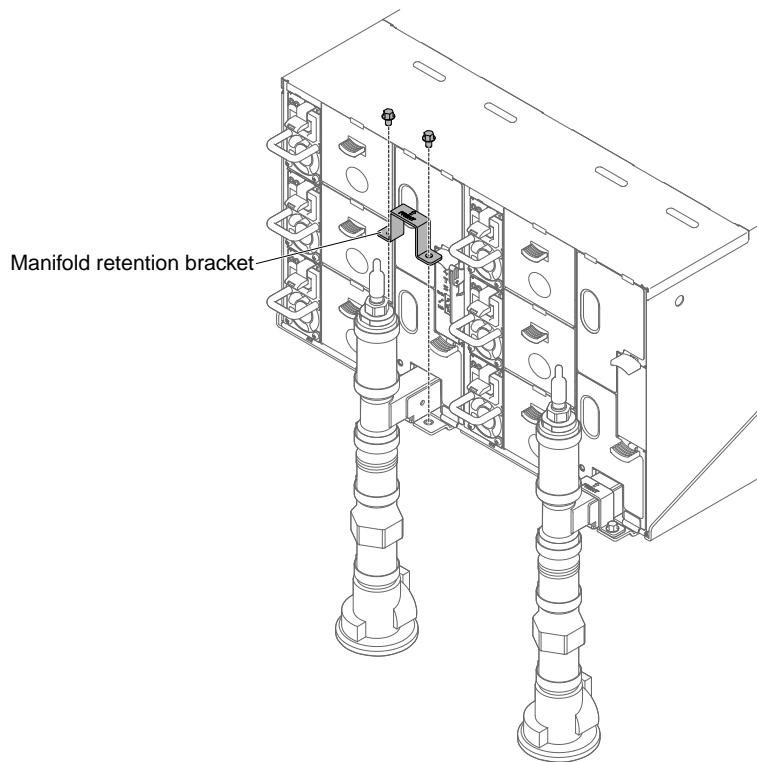


Figure 26. Retention bracket removal

Step 14. Remove drip sensor assembly. Lift latch upwards.

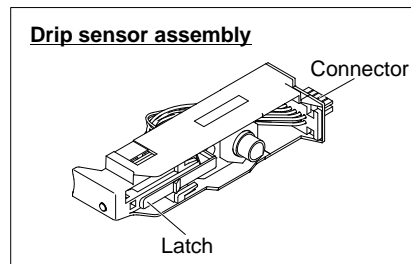
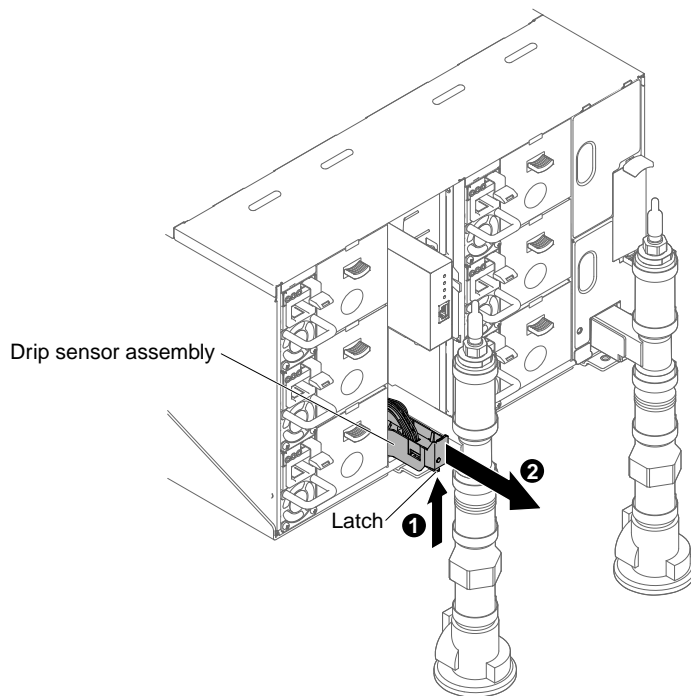


Figure 27. Drip sensor assembly removal

Step 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.

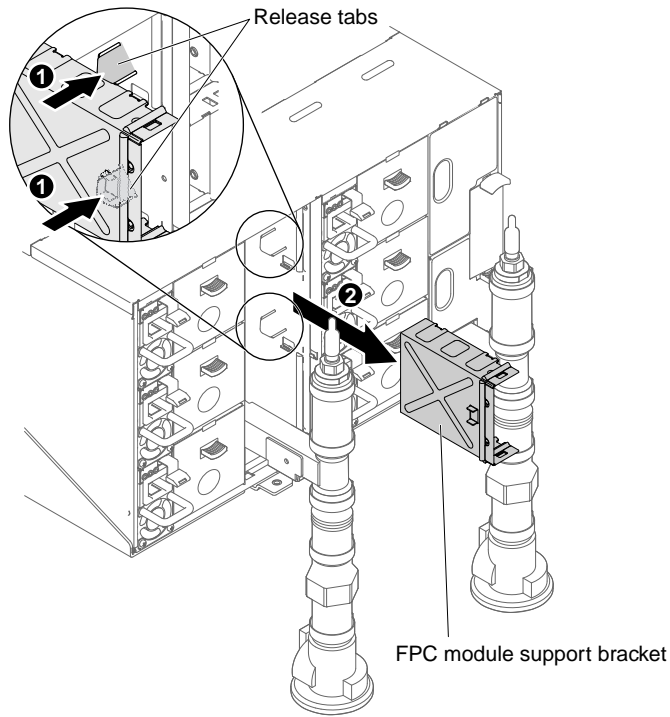


Figure 28. FPC card module removal

Step 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

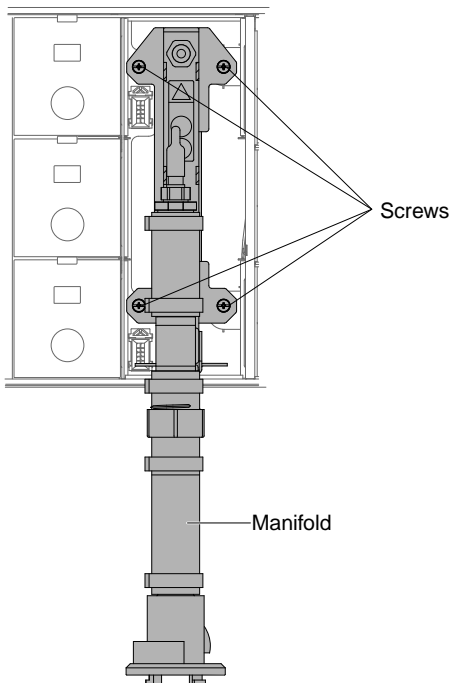


Figure 29. Manifold screw locations

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

Step 18. It is recommended to remove the entire manifold and lay it on the ground for the next steps.

Step 19. Place a pan under the section of the manifold to be removed.

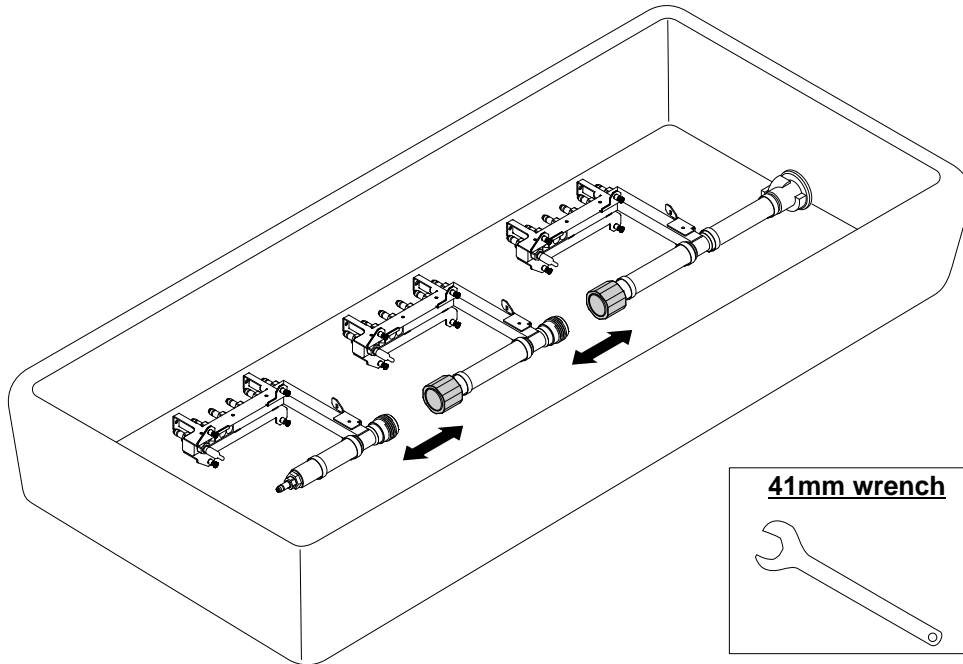


Figure 30. Manifold disassemble

Step 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.

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 141).

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! Prozeduren 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 изведување на постапката потребни се заштитни очила. (L011)

بندىك : بندىك
بندىك : بندىك
بندىك : بندىك
بندىك : بندىك
بندىك : بندىك
بندىك : بندىك
(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)

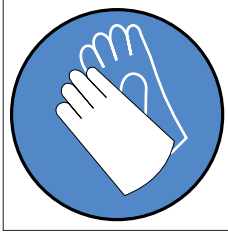
Varning: Skyddsglasögon krävs. (L011)

ཉེན་བརྗེ། : བཞོལ་སྐྱོད་འདིའི་གོ་རིམ་ལ་སྲུང་སྐྱོབ་བྱས་པ་ལྡན་པའི་མིག་གཤམ་གོན་དགོས། (L011)

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

Daezsingj: Aen cauhcoz neix aeu yungh yenjinging 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)

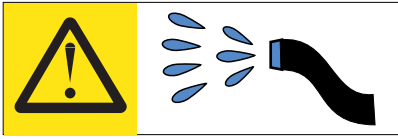
ΠΡΟΣΟΧΗ: Για τη συγκεκριμένη διαδικασία απαιτούνται ειδικά γάντια, ανθεκτικά στις χημικές ουσίες. (L014)

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)

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)

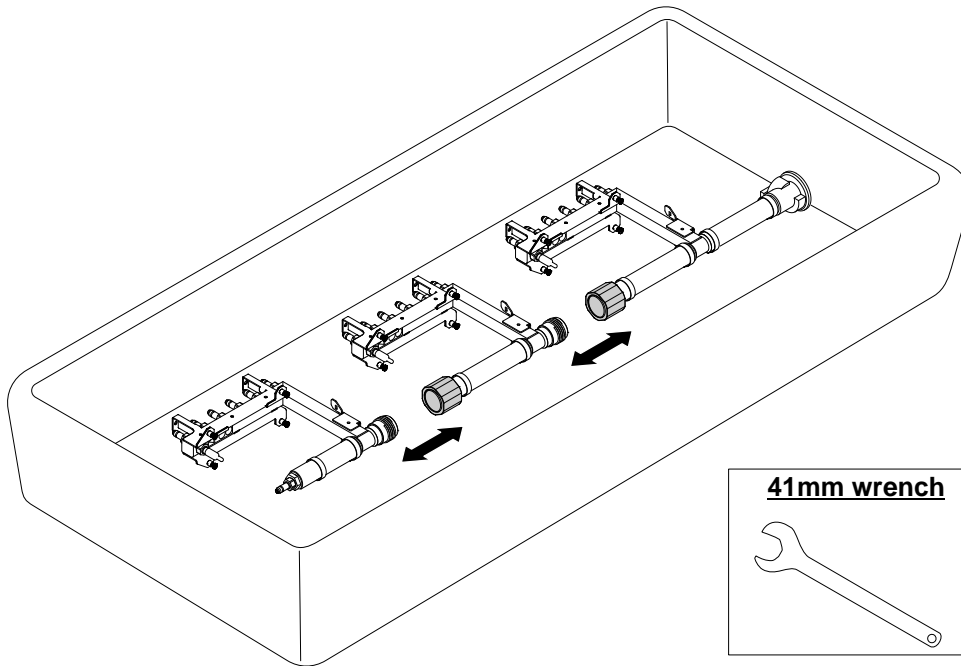


Figure 31. Manifold assemble

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

Back view of chassis

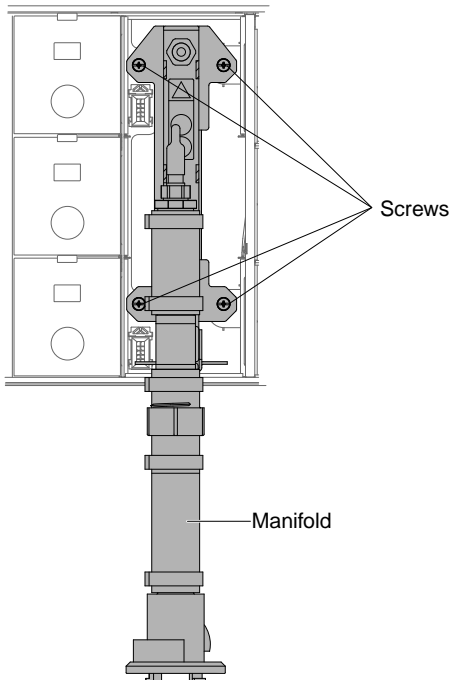


Figure 32. Manifold screw locations

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

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

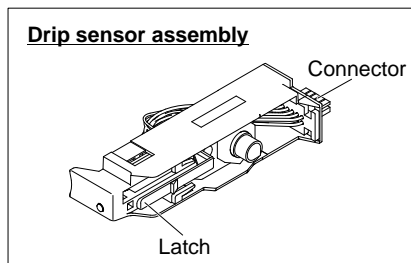
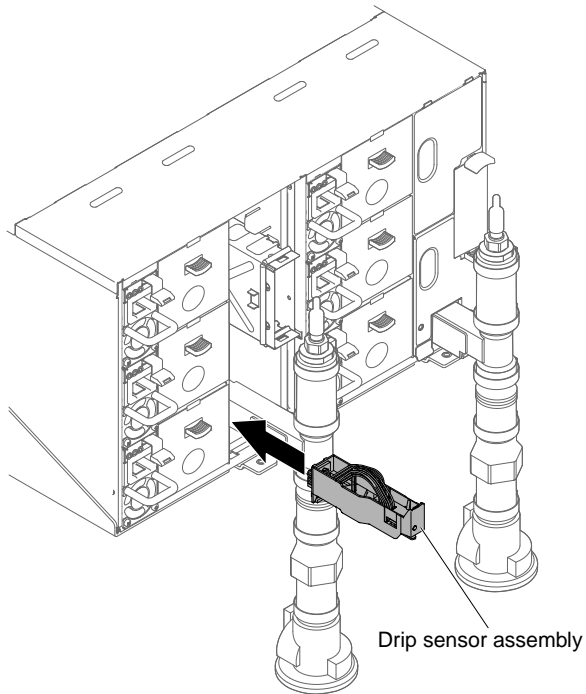


Figure 33. Drip sensor assembly installation

- Step 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.

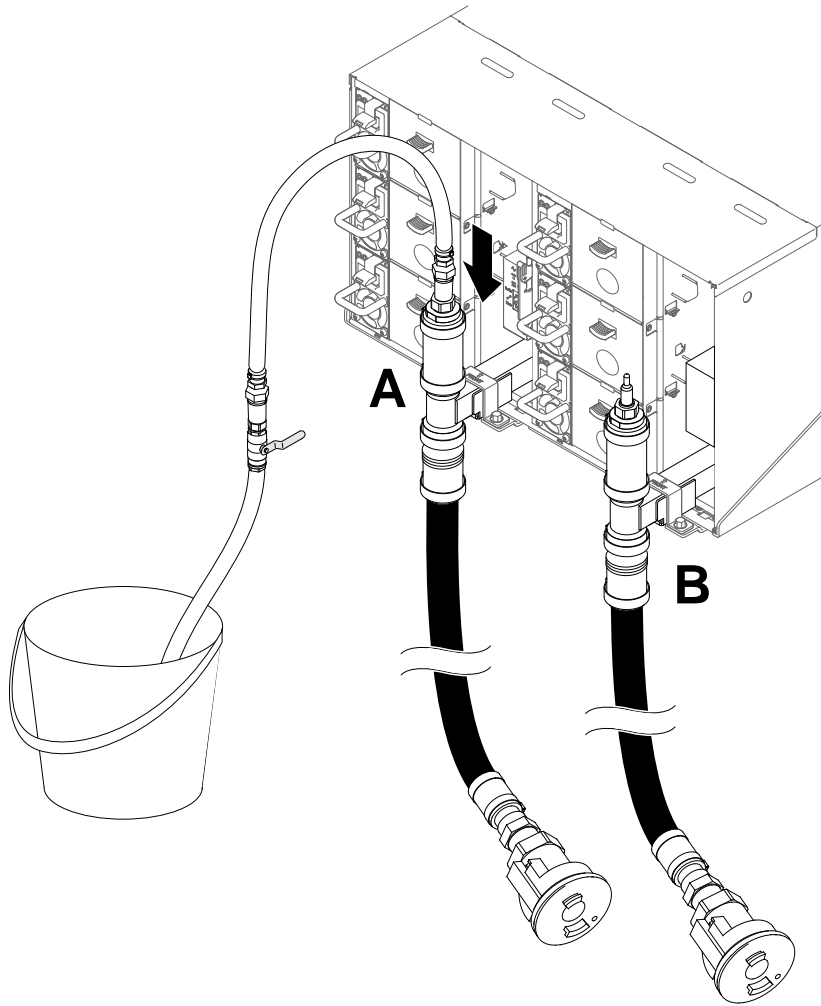


Figure 34. Blue hose assembly to top quick connect connection

Step 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.

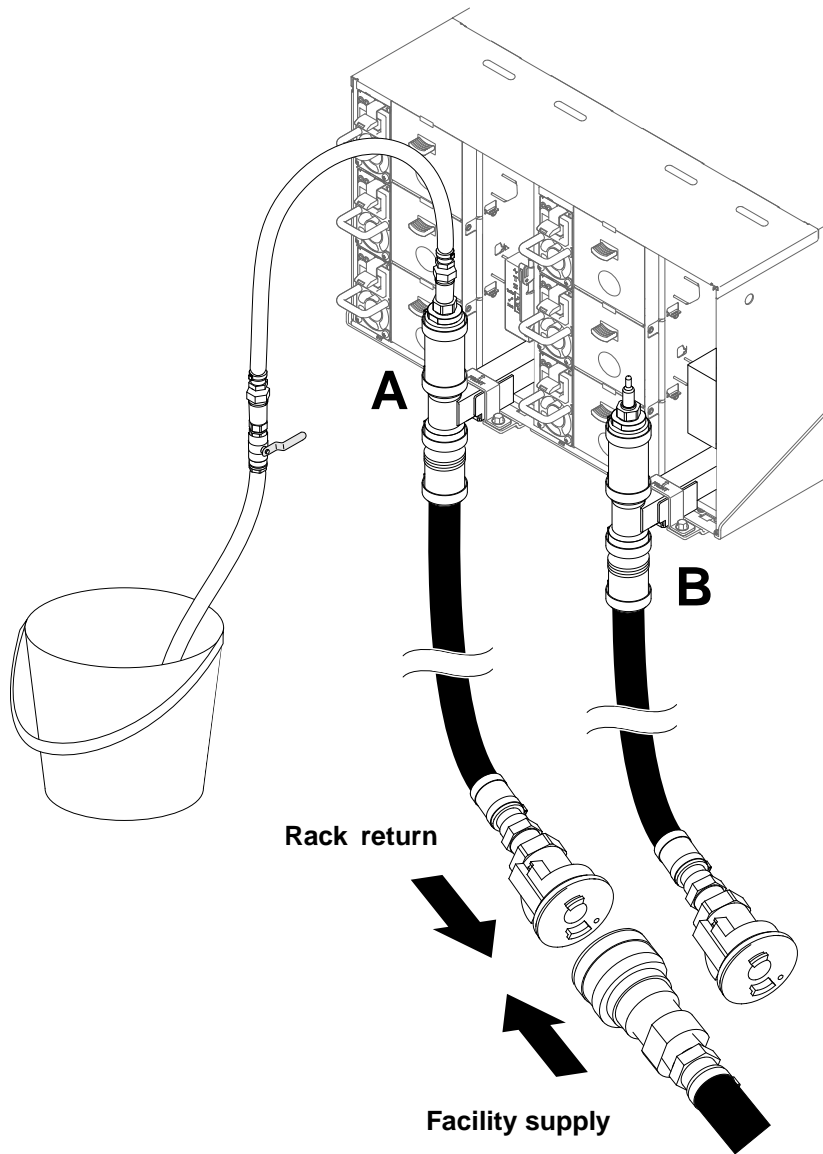


Figure 35. Facility supply hose to rack return hose connection

- Step 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.

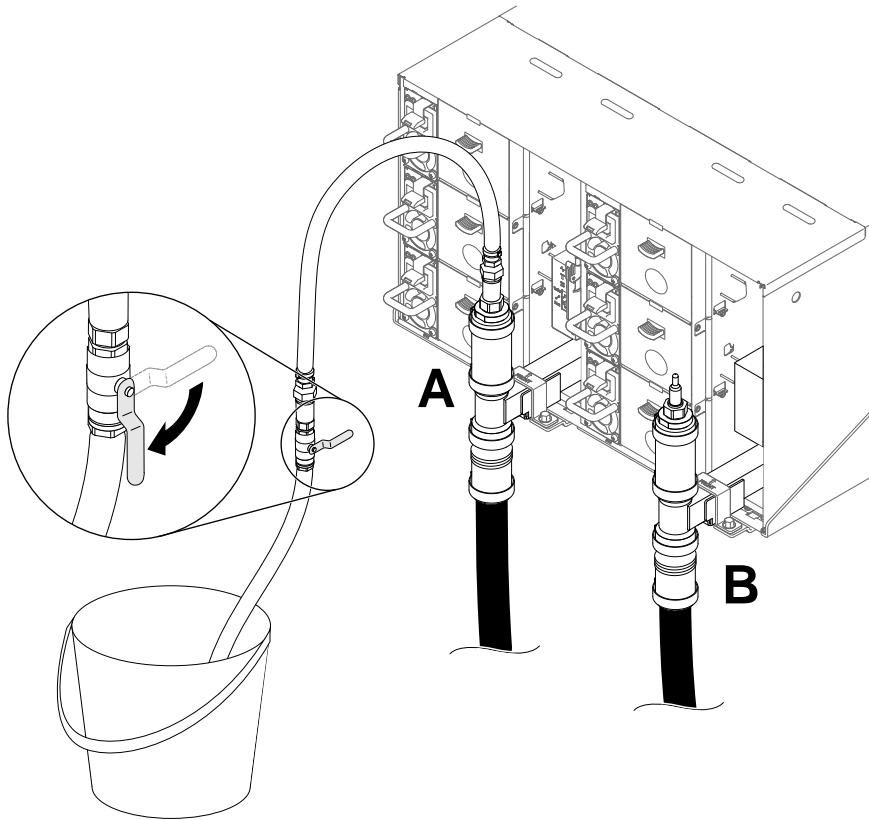


Figure 36. Blue hose valve opening

- Step 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.

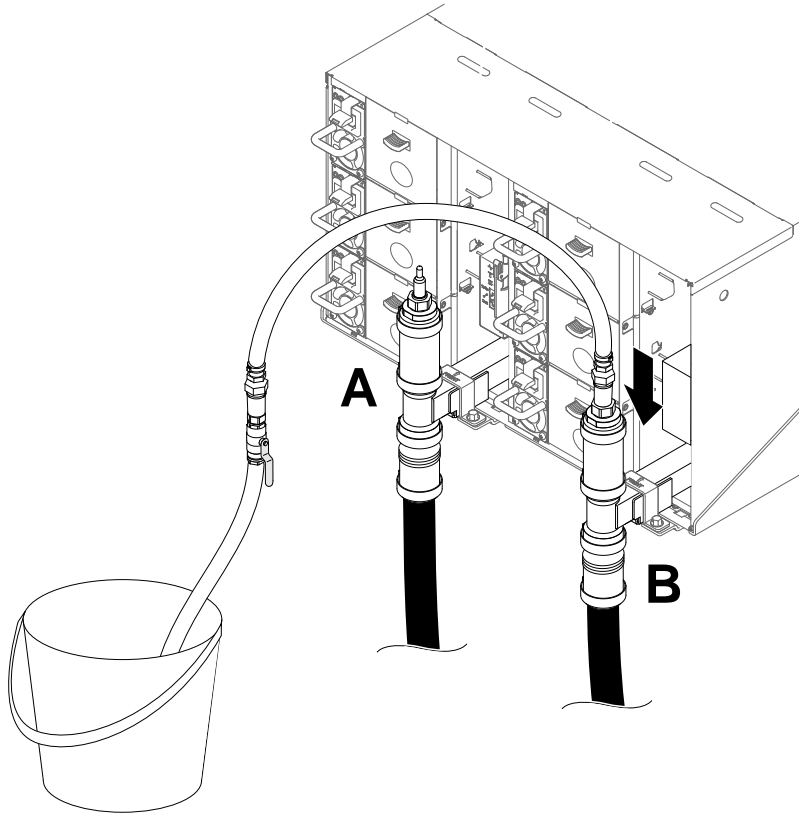


Figure 37. Hose assembly movement

Step 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.

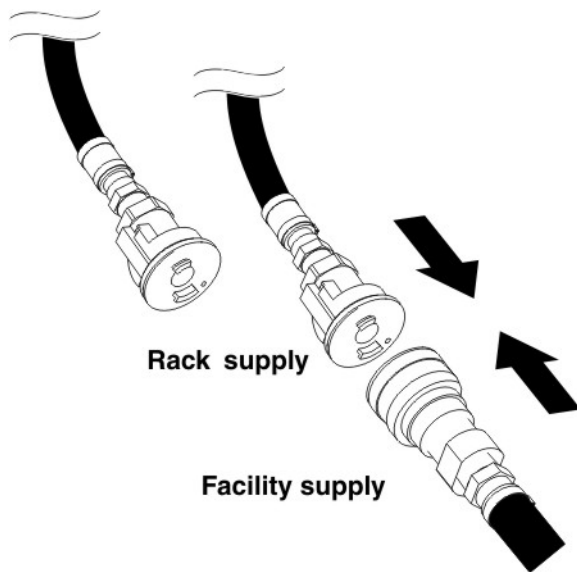


Figure 38. Facility supply hose to the rack supply hose connection

Step 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.

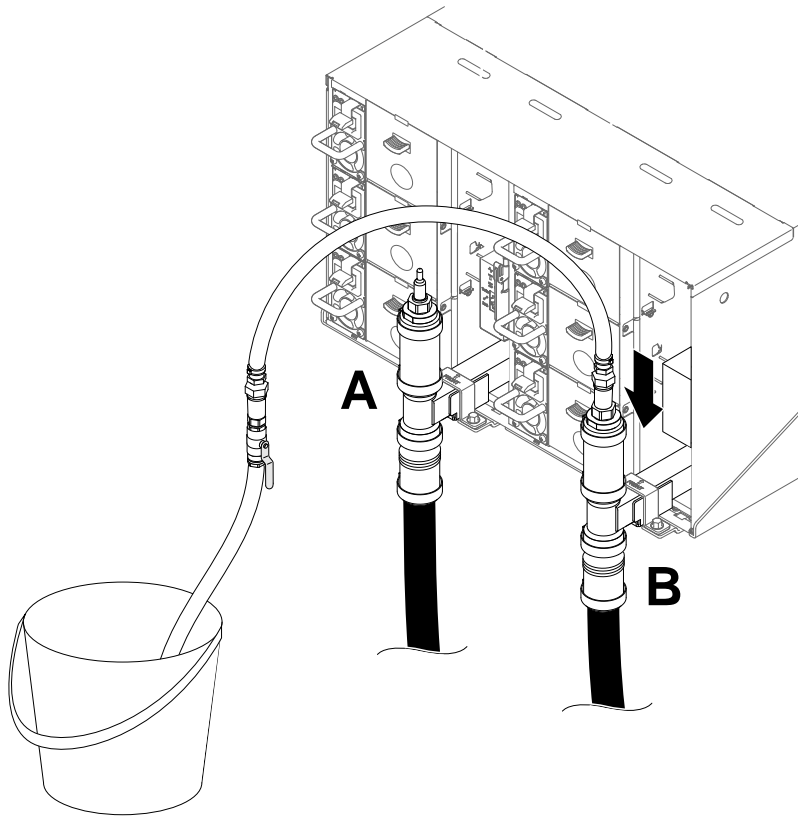


Figure 39. Hose assembly movement

Step 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.

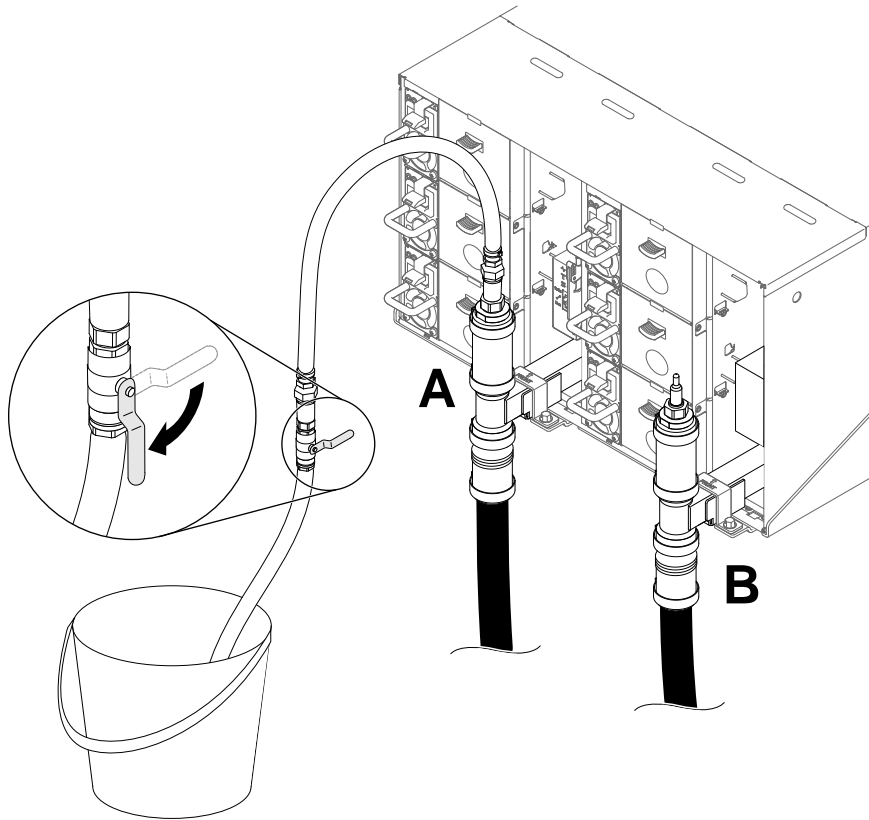


Figure 40. Blue hose valve opening

Step 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.

Notes:

- 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.

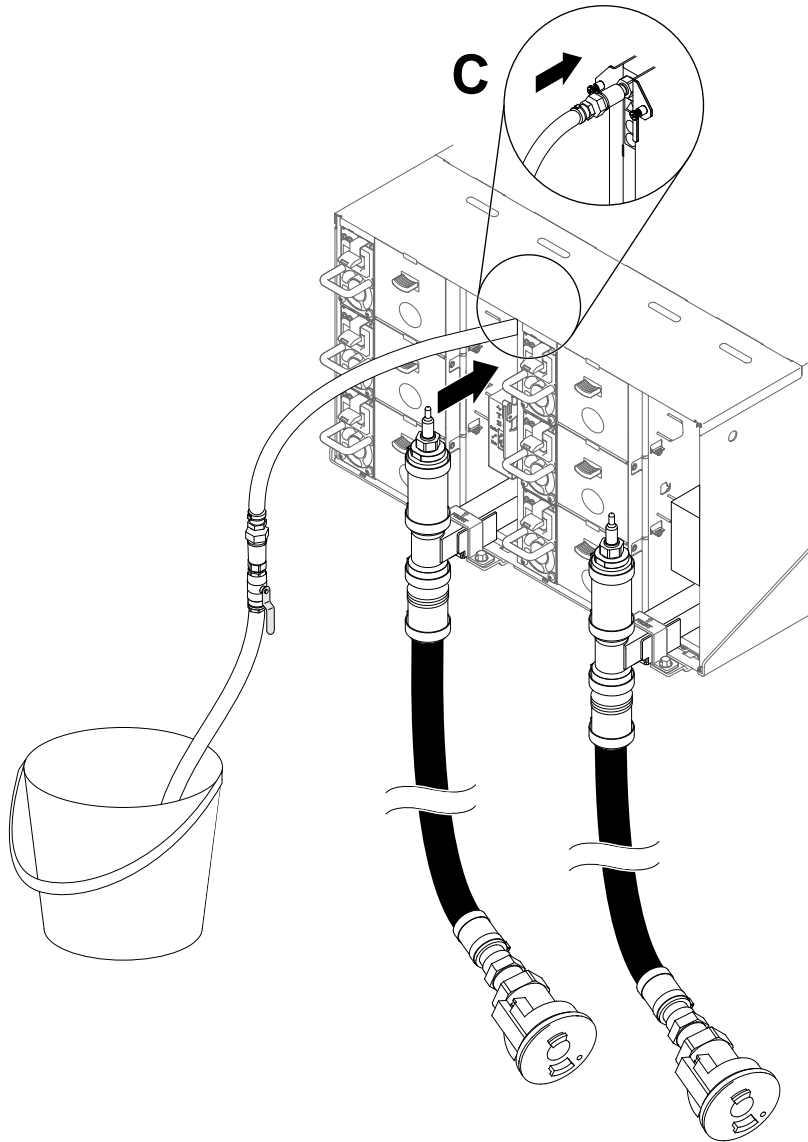


Figure 41. Hose assembly movement

Step 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.

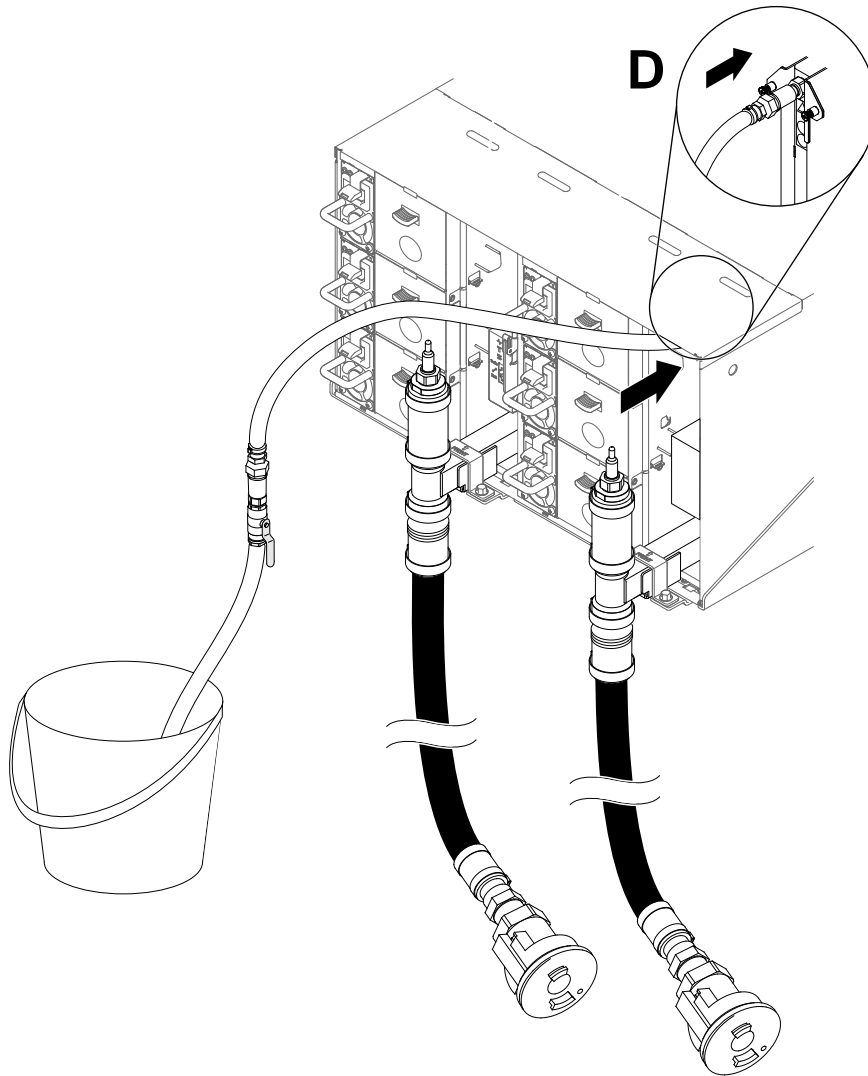


Figure 42. Hose assembly movement

Step 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.

Step 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.

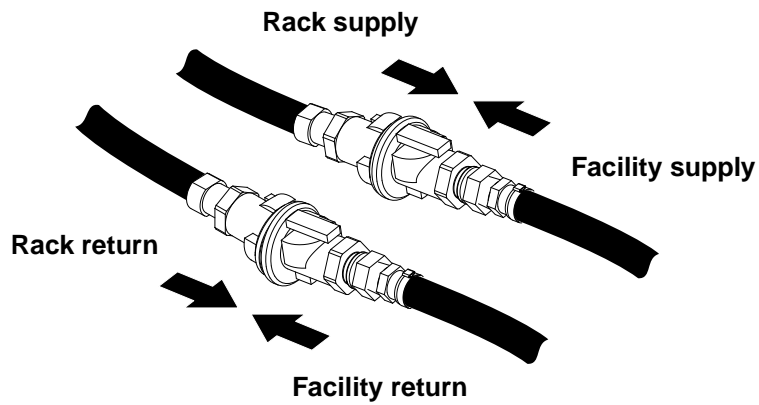


Figure 43. Facility return hose to the rack return hose connection

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

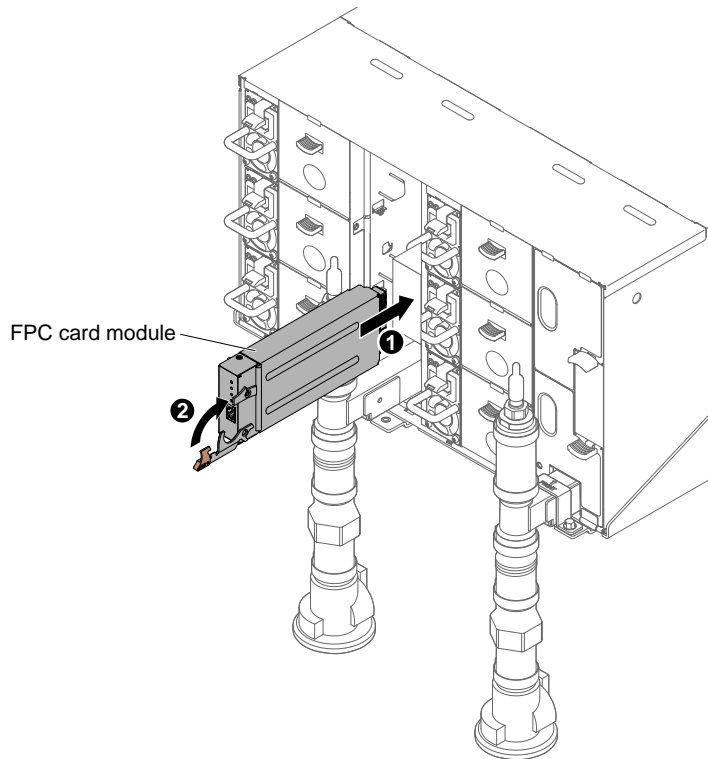


Figure 44. FPC card module installation

- Step 20. Reinstall all EMC shields.

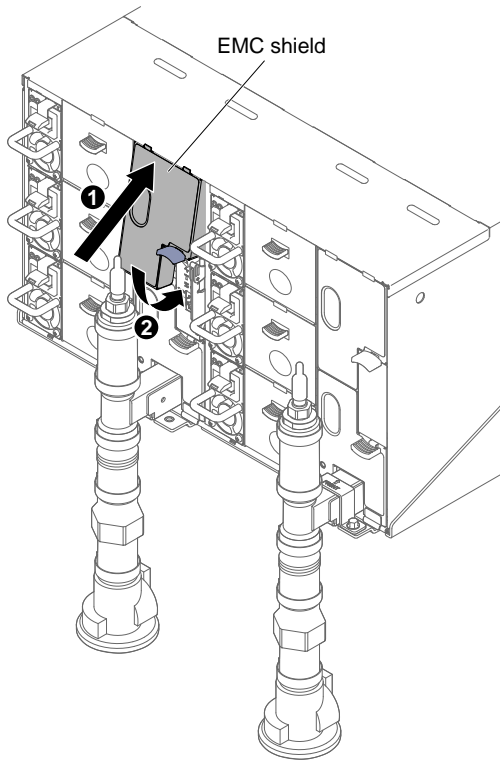


Figure 45. EMC shields installation

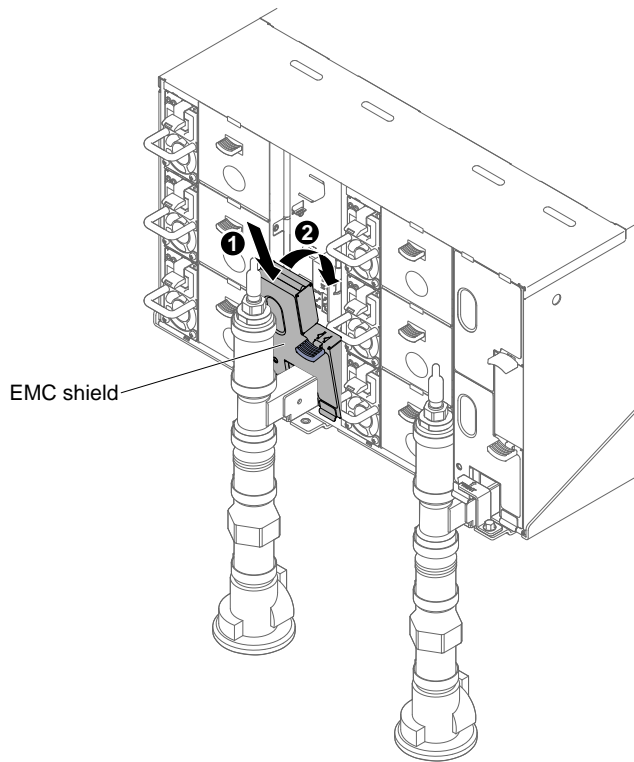


Figure 46. EMC shields installation

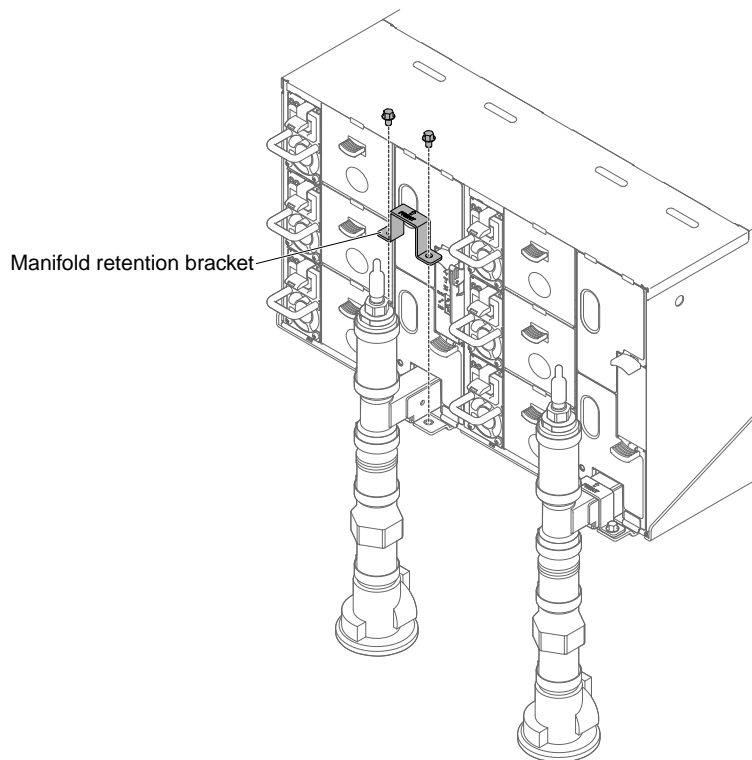


Figure 47. Retention bracket installation

Removing a water-cooled technology tray from a chassis

Use this information to remove a water-cooled technology tray from a Lenovo NeXtScale n1200 Enclosure Type 5468.

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 19 for more information).

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

- Step 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).

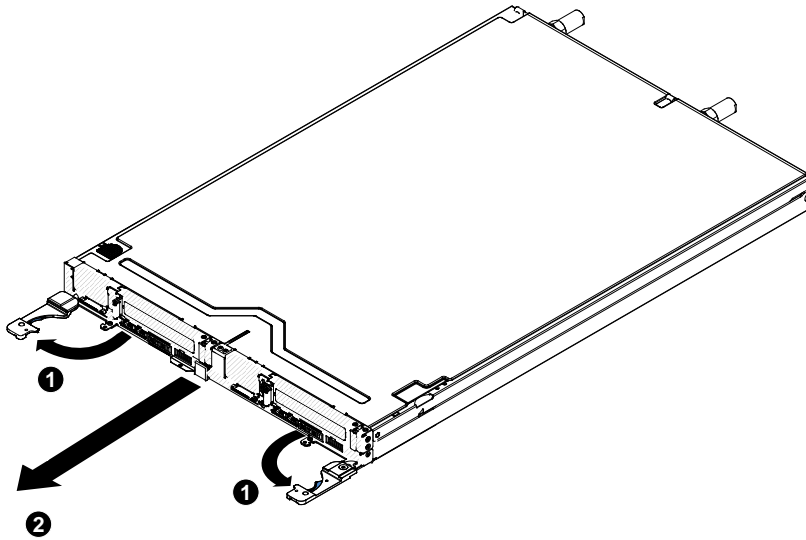


Figure 48. Removal of a NeXtScale nx360 M5 water-cooled technology tray from a chassis

Attention:

- To maintain proper system cooling, do not operate the Lenovo NeXtScale n1200 Enclosure Type 5468 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.

Step 2. Pull the water-cooled technology tray out of the tray bay.

Step 3. Once the water-cooled technology tray has been serviced, place the tray back into the original position as soon as possible.

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 Type 5468.

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.lenovo.com/serverproven/>.

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

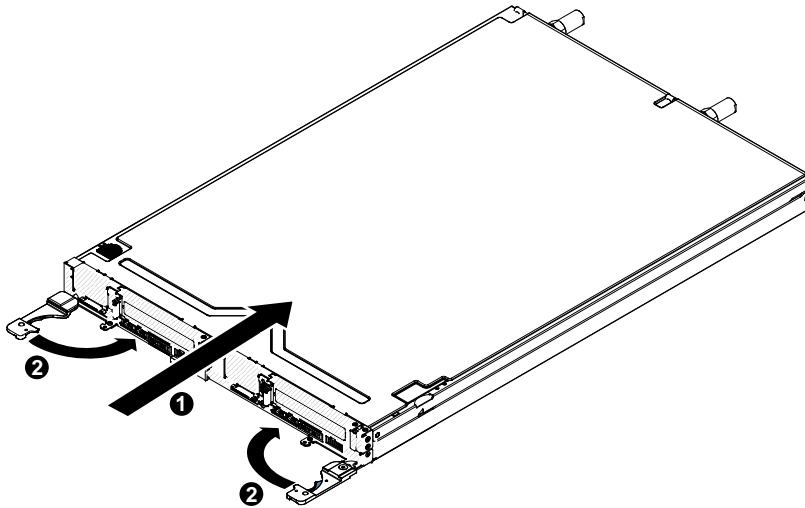


Figure 49. Installing the water-cooled technology tray in a Lenovo NeXtScale n1200 Enclosure Type 5468

Step 1. Select the tray bay.

1. 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.
2. To maintain proper system cooling, do not operate the Lenovo NeXtScale n1200 Enclosure Type 5468 without a water-cooled technology tray or tray bay filler in each tray bay.

Step 2. Make sure that the front handles on the water-cooled technology tray are in the open position.

Step 3. Slide the water-cooled technology tray into the tray bay until it stops.

Step 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.

Step 5. Press the power button to turn on both systems in the water-cooled technology tray (see “Turning on the server” on page 19 for instructions).

Step 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.

Step 7. If you have other water-cooled technology tray to install, do so now.

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 34).

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.

Read the safety information in Safety and Installation guidelines.

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.

To remove the server cover, complete the following steps.

- Step 1. Put the server on a working area before you remove any server components or parts from the server.
- Step 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.

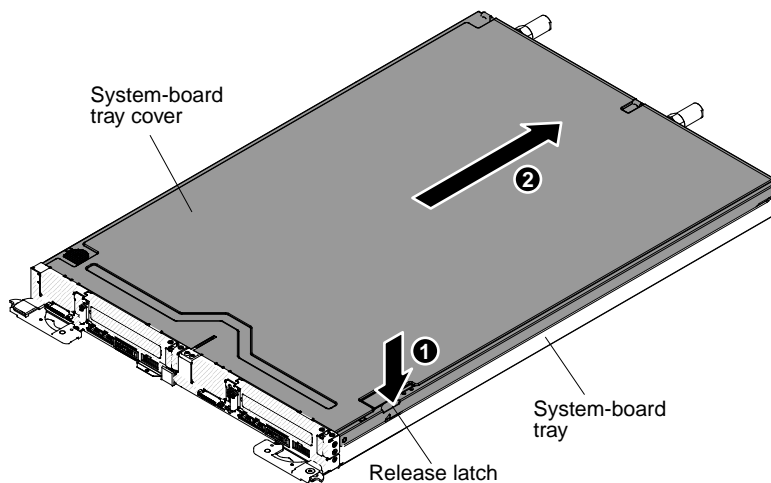


Figure 50. Cover removal

- Step 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.

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.

To replace the server cover, complete the following steps.

Step 1. Position the cover on top of the server.

Step 2. Slide the cover toward the front of the server.

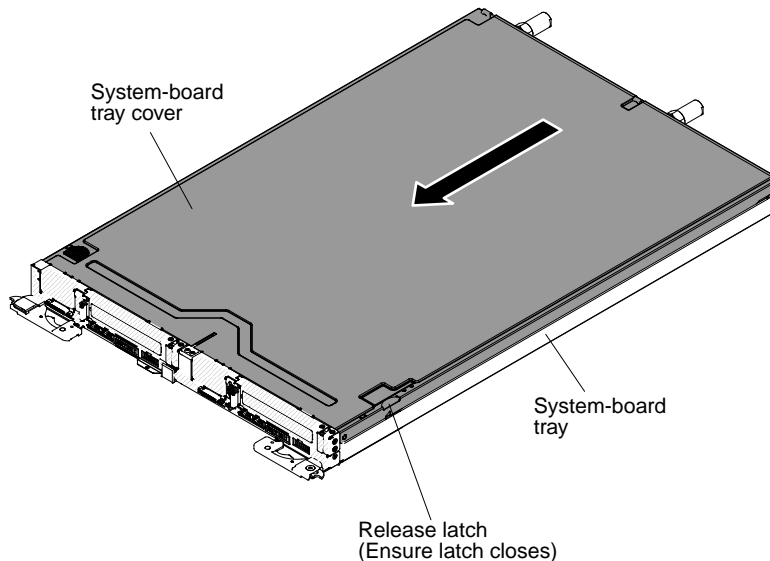


Figure 51. Cover installation

Step 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.

Read the safety information in Safety and Installation guidelines.

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 141 and “Installing a water-cooled technology tray in a chassis” on page 142 sections.

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

- Step 1. Remove the cover (see “Removing the cover” on page 144).
- Step 2. Remove the DIMM cover.

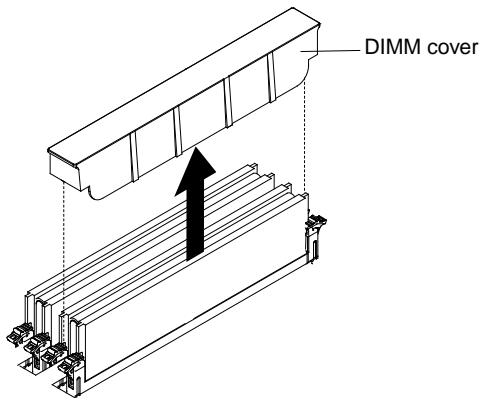


Figure 52. DIMM cover removal

- Step 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.

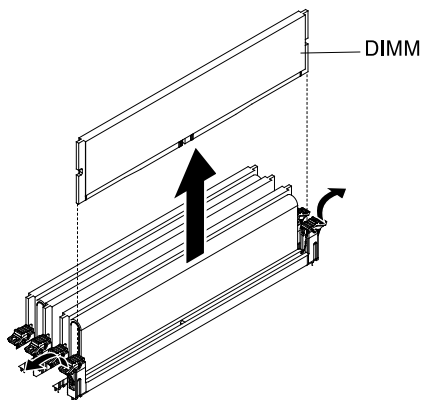


Figure 53. DIMM removal

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.lenovo.com/serverproven/>).
- 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 34 for more information.
- The server supports only industry-standard double-data-rate 4 (DDR4), 1600, 1866, 2133 or 2400 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.lenovo.com/serverproven/> 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. *gggggeRxff*
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 per CPU 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 per CPU 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.
- The memory rank sparing mode requires an even number of DIMMs. If your server has an odd number of DIMMs installed, ensure that you disable the memory rank sparing mode from the **Memory** menu in Setup Utility. See “Using the Setup utility” on page 34 for more information.

Note: After disabling the memory rank sparing mode, if a message prompts that the memory configuration is not valid, restart the integrated management module 2.1 (IMM2.1). Alternatively, you can turn off the server, disconnect it from and then reconnect it to ac power, and then turn on the server again.

- 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.

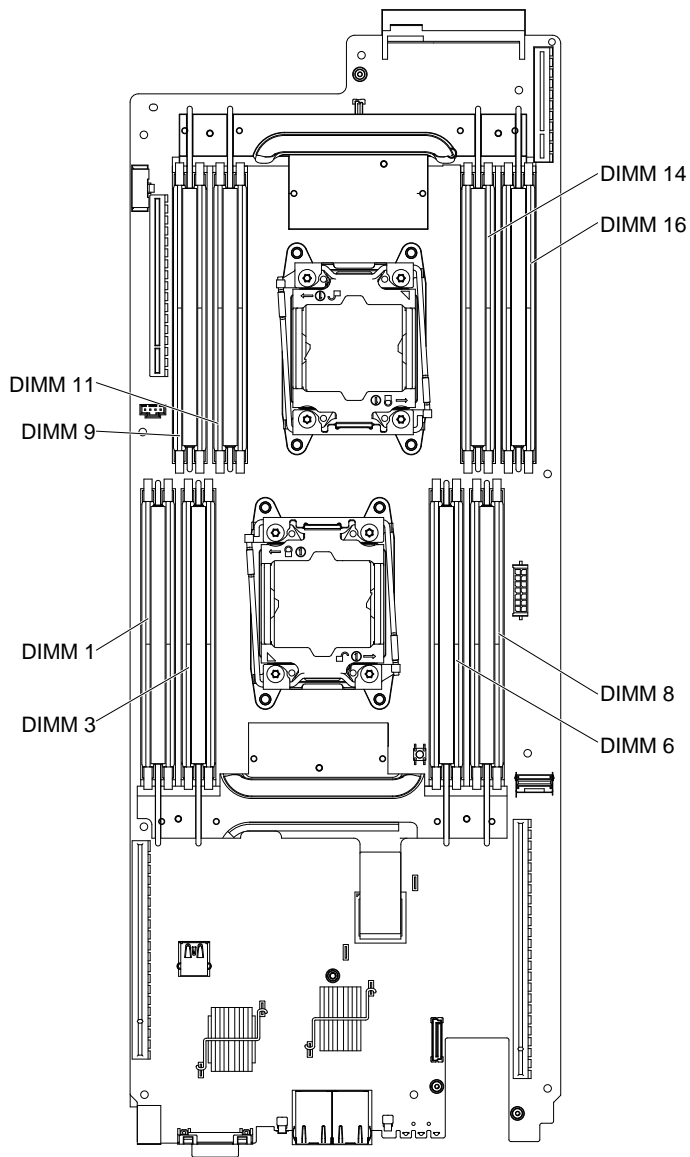


Figure 54. The location of the DIMM connectors on the system board

The following memory-channel configuration table shows the relationship between the processors, memory channels, and the DIMM connectors.

Table 22. Memory-channel configuration table

Channels	Processor 1 – DIMM connectors	Processor 2 – DIMM connectors
Channel 0	7 and 8	9 and 10
Channel 1	5 and 6	11 and 12
Channel 2	1 and 2	15 and 16
Channel 3	3 and 4	13 and 14

Installing a DIMM

Use this information to install a DIMM.

Read the safety information in Safety and Installation guidelines.

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 141 and “Installing a water-cooled technology tray in a chassis” on page 142 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.

To install a DIMM, complete the following steps.

- Step 1. Remove the cover (see “Removing the cover” on page 144).
- Step 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 23. Normal mode DIMM installation sequence

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

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

Attention:

- To avoid breaking the retaining clips or damaging the DIMM connectors, open and close the clips gently.
- Unpopulated DIMM slots must be filled with DIMM fillers in order to provide proper cooling.

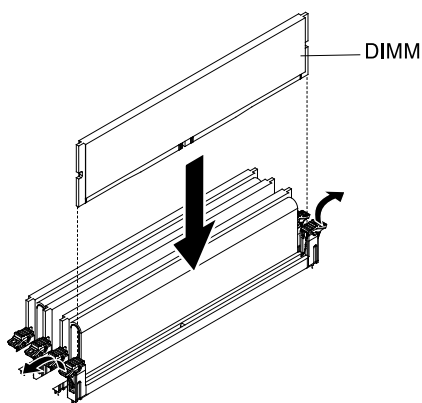


Figure 55. DIMM installation

- Step 4. Touch the static-protective package that contains the DIMM to any unpainted metal surface on the outside of the server. Then, remove the DIMM from the package.
- Step 5. Turn the DIMM so that the alignment slot align correctly with the alignment tab.
- Step 6. Insert the DIMM into the connector by aligning the edges of the DIMM with the slots at the ends of the DIMM connector.

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

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

Step 8. Install the DIMM cover.

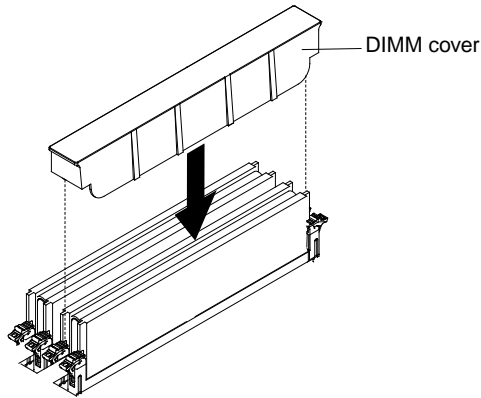


Figure 56. DIMM installation

Step 9. Reinstall the cover (see “Replacing the cover” on page 144).

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 drive cage

Use this information to remove the optional drive cage.

Read the safety information in Safety and Installation guidelines.

Note: You only need to remove the drive cage if a system board is replaced.

To remove the optional drive cage, complete the following steps:

- Step 1. Remove the water-cooled technology tray from a chassis (See “Removing a water-cooled technology tray from a chassis” on page 141).
- Step 2. Remove the cover (see “Removing the cover” on page 144).
- Step 3. Remove a hard disk drive/ solid state drive (See “Removing a hard disk drive (HDD)/solid state drive (SSD)” on page 153).
- Step 4. Remove the three screws that secure the drive cage to the water-cooled technology tray and save them for future use.

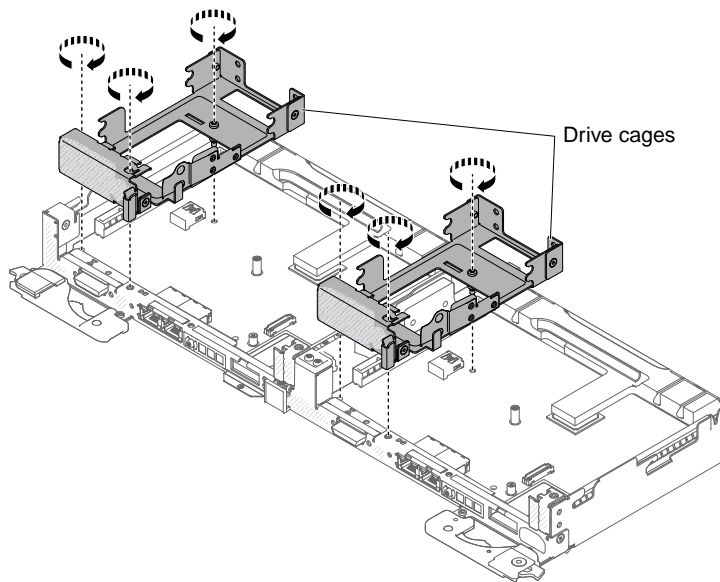


Figure 57. Drive cage screws removal

Step 5. Remove the drive cage out of the water-cooled technology tray.

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 optional drive cage

Use this information to install the optional drive cage.

Read the safety information in Safety and Installation guidelines.

Note: You only need to install a drive cage if it was previously removed for system board Service.

To install the optional drive cages, complete the following steps:

- Step 1. Turn off the water-cooled technology tray and peripheral devices and disconnect the power cords and all external cables.
- Step 2. Remove the cover (see “Removing the cover” on page 144).
- Step 3. If this is the first time that you install the drive cage, remove the one torx head screw from the water-cooled technology tray.

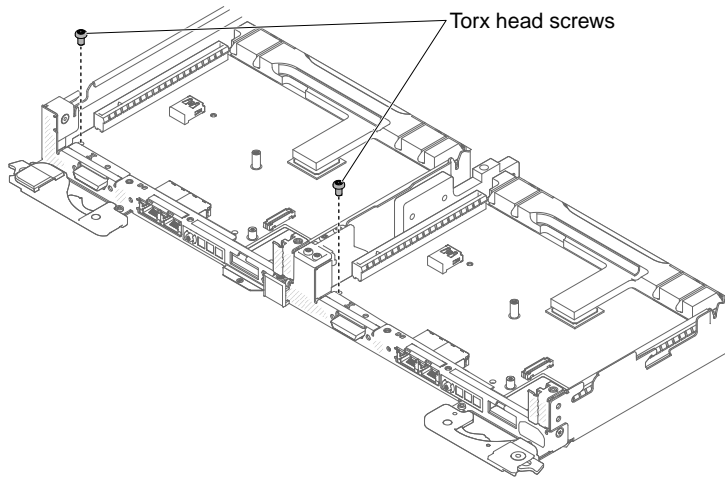


Figure 58. Torx head screws removal

Step 4. Place the drive cages on the water-cooled technology tray.

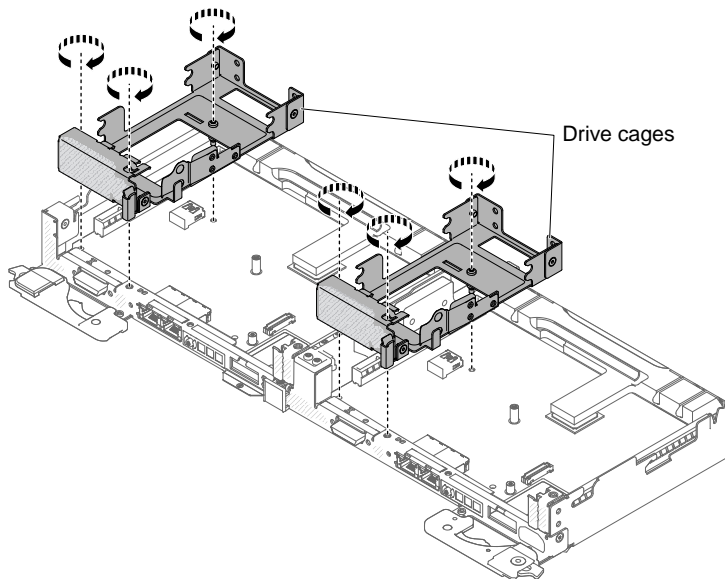


Figure 59. Drive cage installation

- Step 5. Install the three screws that secure the Solid State drive cage to the water-cooled technology tray.
- Step 6. Reinstall the hard disk drives/solid state drives and route the cables as instructed (see “Replacing a hard disk drive (HDD)/solid state drive (SSD)” on page 155).
- Step 7. Reinstall the cover (see “Replacing the cover” on page 144).
- Step 8. Slide the compute node into the rack.
- Step 9. Reconnect the power cords and any cables that you removed.
- Step 10. Turn on the peripheral devices and the compute node.

Removing a hard disk drive (HDD)/solid state drive (SSD)

Use this information to remove a hard disk drive (HDD)/solid state drive (SSD).

Read the safety information in Safety and Installation guidelines.

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 141 and “Installing a water-cooled technology tray in a chassis” on page 142 sections.

To remove a HDD/SSD, complete the following steps:

- Step 1. Remove the cover (see “Removing the cover” on page 144).
- Step 2. Push the latch outward away from the HDD/SSD and slide the drive toward the front of the Lenovo NeXtScale nx360 M5 water-cooled technology tray.

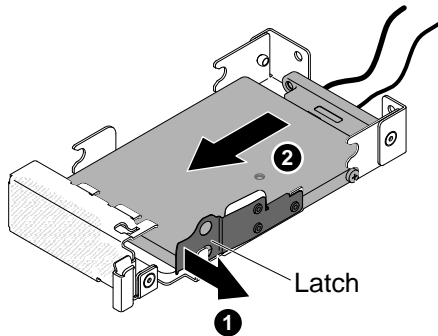


Figure 60. HDD/SSD removal

- Step 3. Tilt the HDD/SSD up.

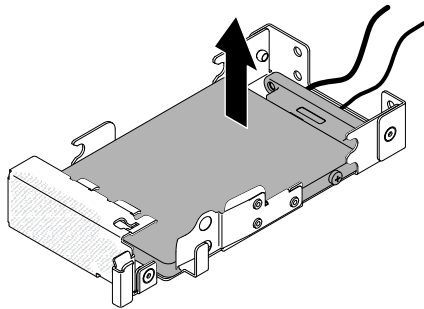


Figure 61. HDD/SSD removal

- Step 4. Remove the HDD/SSD from the drive cage with an angle.

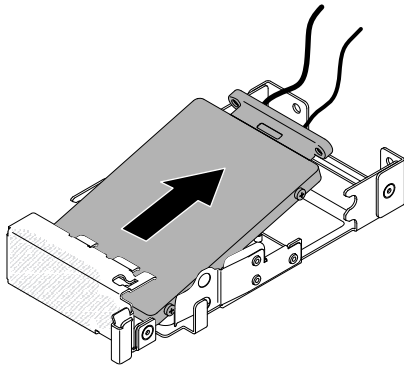


Figure 62. HDD/SSD removal

Step 5. Remove the SATA signal connector from the HDD/SSD drive.

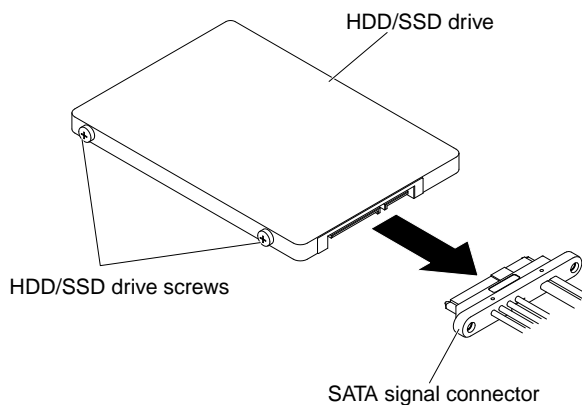


Figure 63. SATA signal connector removal

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

Replacing a hard disk drive (HDD)/solid state drive (SSD)

Use this information to install a hard disk drive (HDD)/solid state drive (SSD).

Read the safety information in Safety and Installation guidelines.

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 141 and “Installing a water-cooled technology tray in a chassis” on page 142 sections.

To install a hard disk drive (HDD)/solid state drive (SSD), complete the following steps:

- Step 1. Turn off the water-cooled technology tray and peripheral devices and disconnect the power cords and all external cables.
- Step 2. Remove the cover (see “Removing the cover” on page 144).
- Step 3. Plug in the SATA signal connector into the HDD/SSD drive.

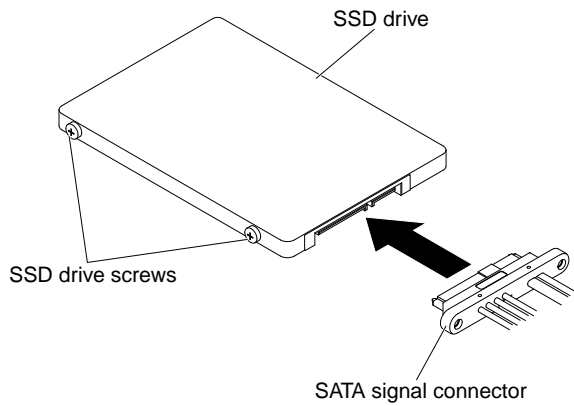


Figure 64. SATA signal connector installation

- Step 4. Release the latch and place the HDD/SSD into the drive cage with an angle.
- Step 5. Press down the HDD/SSD to make sure it is installed firmly.
- Step 6. Push the HDD/SSD outward.

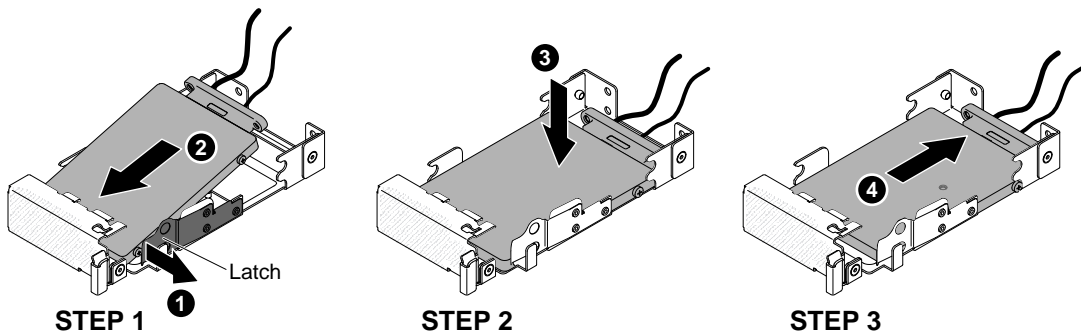


Figure 65. HDD/SSD installation

- Step 7. Install the two screws between the HDD/SSD and the drive cage. Make sure the screws are seated in the middle of the holes so they are firmly installed. Spring will snap into place around the front screw when drive is seated in place.

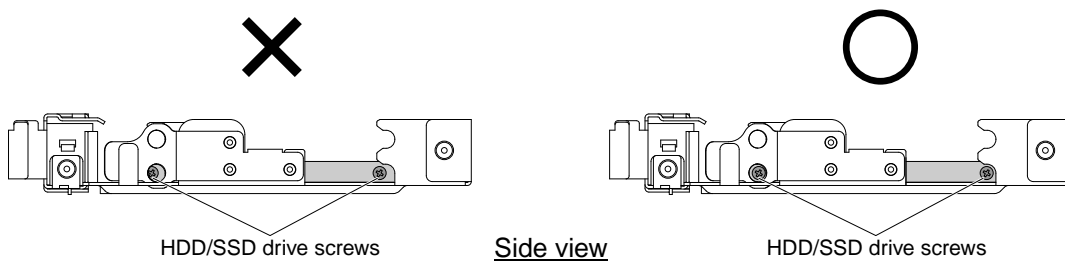


Figure 66. Side view of a HDD/SSD

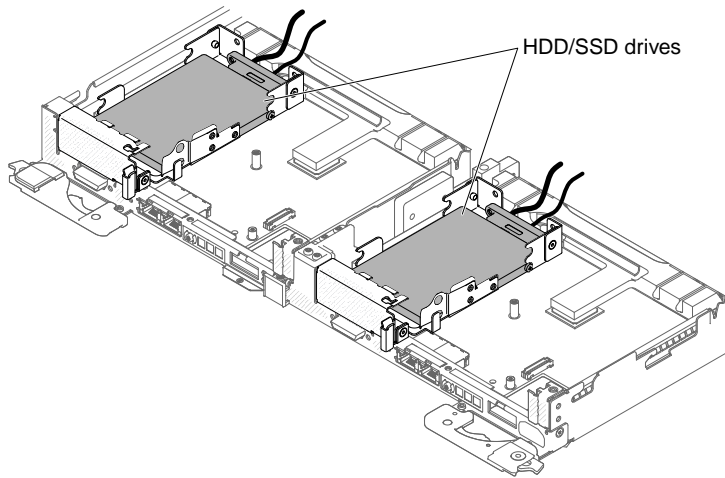


Figure 67. Front view with HDDs/SSDs installed

Step 8. Route the cables as the illustration displayed.

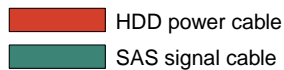
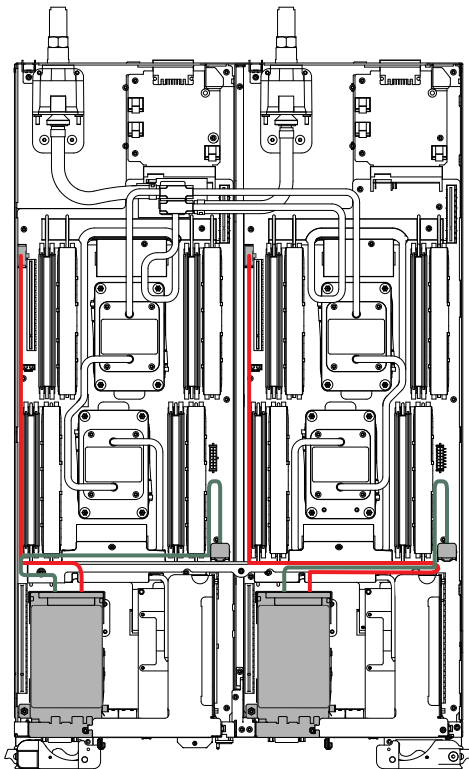


Figure 68. Cable routings for the HDDs/SSDs power cables and the SATA signal cables

- Step 9. Reinstall the cover (see “Replacing the cover” on page 144).
- Step 10. Slide the compute tray into the rack.
- Step 11. Reconnect the power cords and any cables that you removed.

Step 12. Turn on the peripheral devices and the compute node.

Removing the optional PCI or ML2 adapter

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

Read the safety information in Safety and Installation guidelines.

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 141 and “Installing a water-cooled technology tray in a chassis” on page 142 sections.

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

Note: If your adapter was previously configured, backup or record its configuration information, if possible, before replacing the adapter. See the documentation for your adapter for information and instructions.

- Step 1. Remove the cover (see “Removing the cover” on page 144).
- Step 2. Disconnect the cables from the adapter.
- Step 3. Remove stiffening bracket by removing the M4 screw.
- Step 4. Remove Retaining clamp by removing 3x screws.
- Step 5. Remove the riser and adapter assembly out of the tray.
- Step 6. Carefully grasp the adapter and riser by its top edge or upper corners, and pull the adapter from the PCI riser-card assembly.

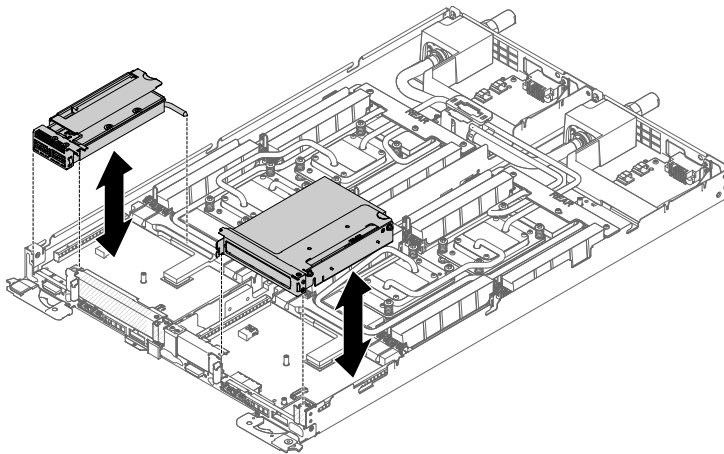


Figure 69. Adapter removal

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

Replacing the optional PCI or ML2 adapter

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

Read the safety information in Safety and Installation guidelines.

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 141 and “Installing a water-cooled technology tray in a chassis” on page 142 sections.

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

Notes:

- If your adapter was previously configured, backup or record its configuration information, if possible, before replacing the adapter. See the documentation for your adapter for information and instructions.
- In the legacy mode, this system has limited ROM space for installed options. At most four network interface cards (NICs) are supported for legacy PXE boot. If more than four NICs are installed, legacy PXE boot will not be attempted on some of the NICs. To enable legacy PXE boot on the desired NIC connectors, prioritize the desired NIC connectors by changing the **ROM execution Order** or disable the NIC connectors that you do not use from the **Enable/Disable Adapter Option ROM Support** menu.

- Step 1. Turn off the water-cooled technology tray and peripheral devices and disconnect the power cords and all external cables.
- Step 2. Remove the cover (see “Removing the cover” on page 144).
- Step 3. Disconnect the cables from the adapter.
- Step 4. Insert the adapter/ML2 card into the PCI riser-cage assembly/ML2 riser card assembly, aligning the edge connector on the adapter/ML2 card with the connector on the PCI riser-cage assembly/ML2 riser card assembly. Press the edge of the connector *firmly* into the PCI riser-cage assembly/ML2 riser card assembly. Make sure that the adapter/ML2 card snaps into the PCI riser-cage assembly/ML2 riser card assembly securely.

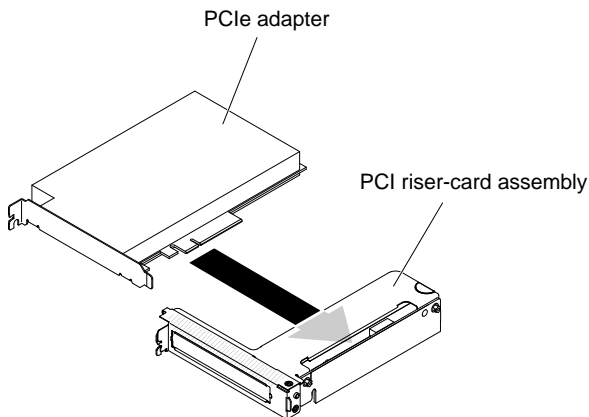


Figure 70. Adapter installation

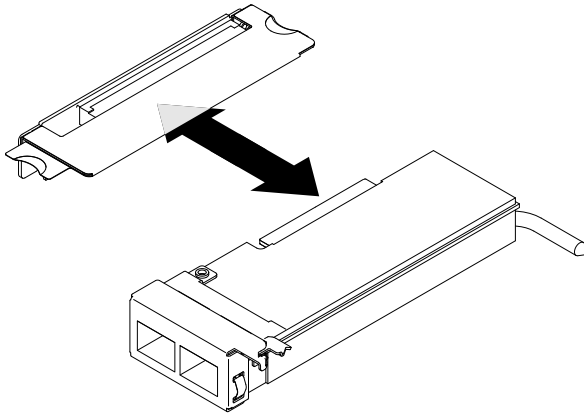


Figure 71. ML2 card installation

- Step 5. Align the PCI riser-cage assembly/ML2 riser card assembly with the slots and press the PCI riser-cage assembly/ML2 riser card assembly firmly into the tray.

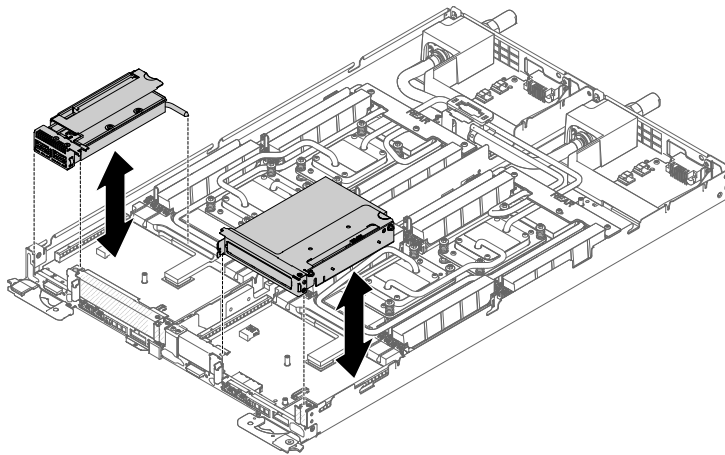


Figure 72. PCI riser-cage assembly/ML2 riser card assembly installation

- Step 6. Connect the cable to the newly-installed adapter/ML2 card if there is one.
- Step 7. Reinstall the cover (see “Replacing the cover” on page 144).
- Step 8. Slide the compute node into the rack.
- Step 9. Reconnect the power cords and any cables that you removed.
- Step 10. Turn on the peripheral devices and the compute node.

Removing the system battery

Use this information to remove the system battery.

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 and Installation guidelines.

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 141 and “Installing a water-cooled technology tray in a chassis” on page 142 sections.

To remove the battery, complete the following steps.

- Step 1. Remove the cover (see “Removing the cover” on page 144).
- Step 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 158).
- Step 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.

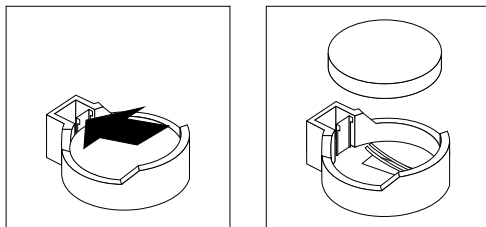


Figure 73. System battery removal

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

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

Replacing the system battery

Use this information to replace the system battery.

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 and Installation guidelines.

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 141 and “Installing a water-cooled technology tray in a chassis” on page 142 sections.

To replace the battery, complete the following steps.

Step 1. Follow any special handling and installation instructions that come with the replacement battery.

Step 2. Remove the cover (see “Removing the cover” on page 144).

- Step 3. Locate the battery connector on the system board (see “System-board internal connectors” on page 24).
- Step 4. Insert the new battery:
- Orient the battery so that the positive side faces up.
 - Tilt the battery so that you can insert it into the socket on the side opposite the battery clip.

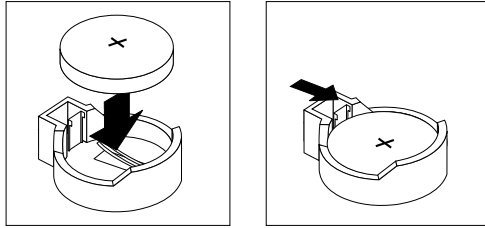


Figure 74. System battery installation

- Press the battery down into the socket until it clicks into place. Make sure that the battery clip holds the battery securely.
- Step 5. Install the PCIe riser card and adapter assembly (if a PCIe card is installed).
- Step 6. Reinstall the cover (see “Replacing the cover” on page 144).
- Step 7. Slide the server into the rack.
- Step 8. Reconnect the external cables and power cords; then, turn on the attached devices and turn on the server.
- Step 9. Start the Setup utility and reset the configuration:
- Set the system date and time.
 - Set the power-on password.
 - Reconfigure the server.
- See “Starting the Setup utility” on page 34 for details.

Removing a hot-swap power supply

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

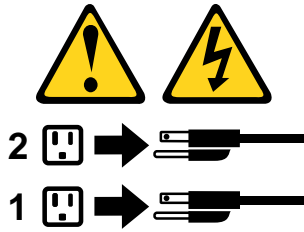
When you remove or install a hot-swap power supply, observe the following precautions.

Statement 5



CAUTION:

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

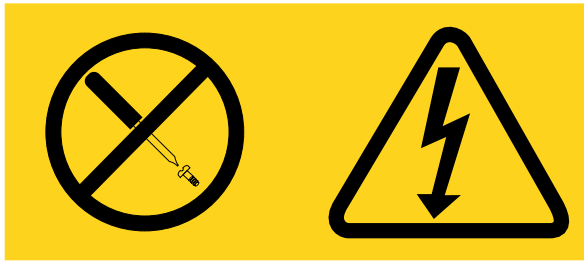


Statement 8



CAUTION:

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



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

Read the safety information in Safety and Installation guidelines.

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.

Step 1. Disconnect the power cord from the connector on the back of the power supply.

Step 2. Press and hold the orange release tab.

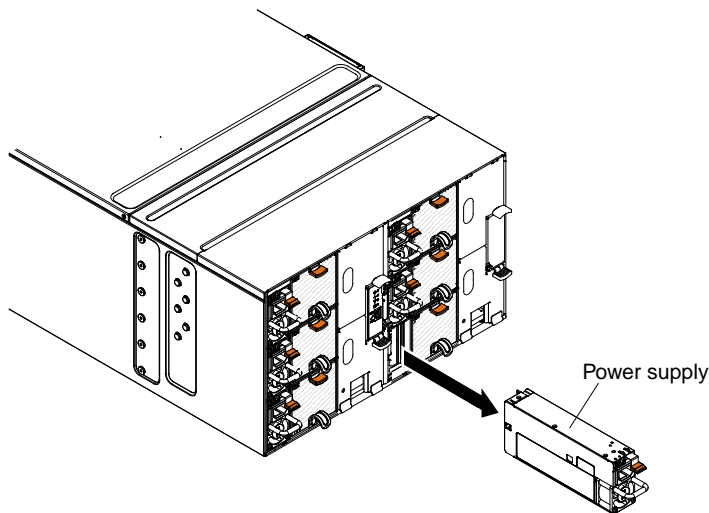


Figure 75. Hot-swap power supply removal

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

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.

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:

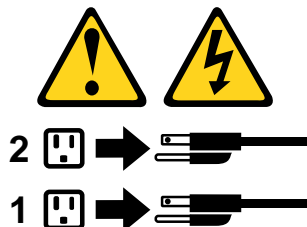
- For redundancy support, you must install an additional hot-swap power supply, if one is not installed in your model.
- Make sure that the devices that you are installing are supported. For a list of supported optional devices for the server, see <http://www.lenovo.com/serverproven/>.

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 and Installation guidelines.

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

Step 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.

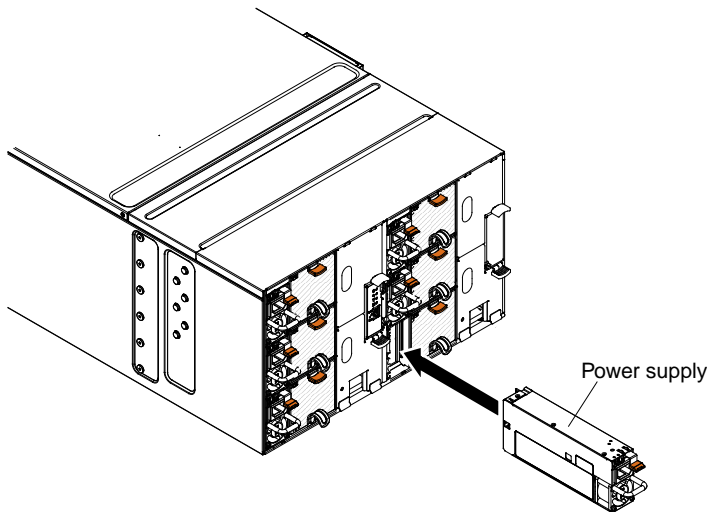


Figure 76. Hot-swap power supply installation

Step 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.

Step 3. If the server is turned off, turn on the server.

Step 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.

Read the safety information in Safety and Installation guidelines.

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 141 and “Installing a water-cooled technology tray in a chassis” on page 142 sections.

To remove the distribution board, complete the following steps:

- Step 1. Remove the cover (see “Removing the cover” on page 144).
- Step 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

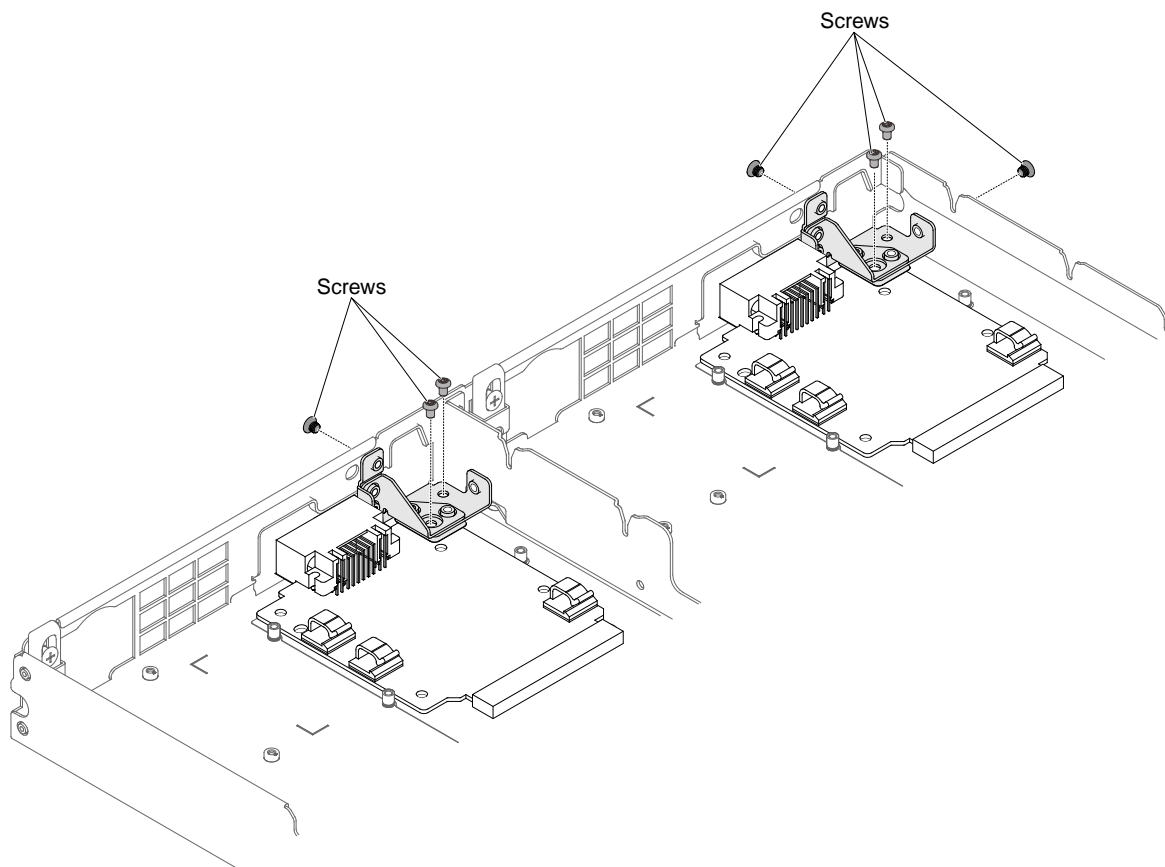


Figure 77. Rear bulkhead bracket screws removal

Step 3. Remove the rear bulkhead bracket.

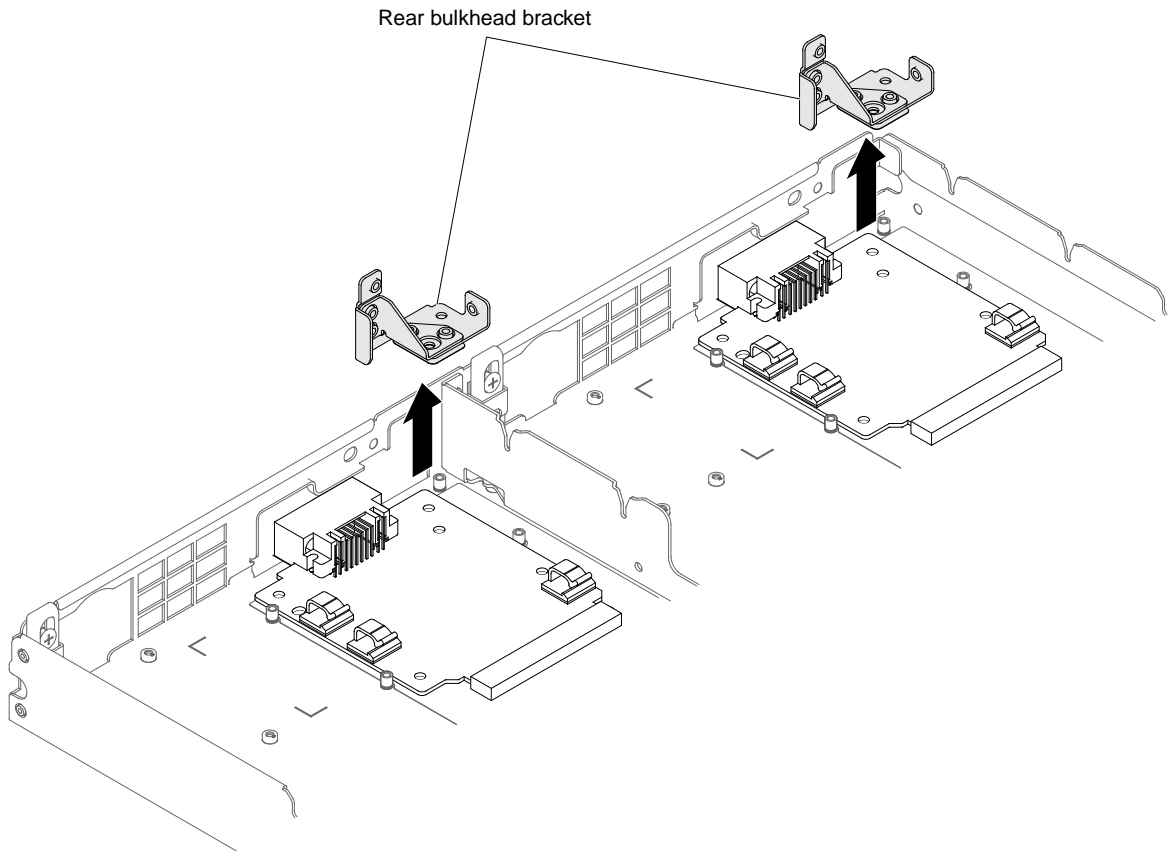


Figure 78. Rear bulkhead bracket removal

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

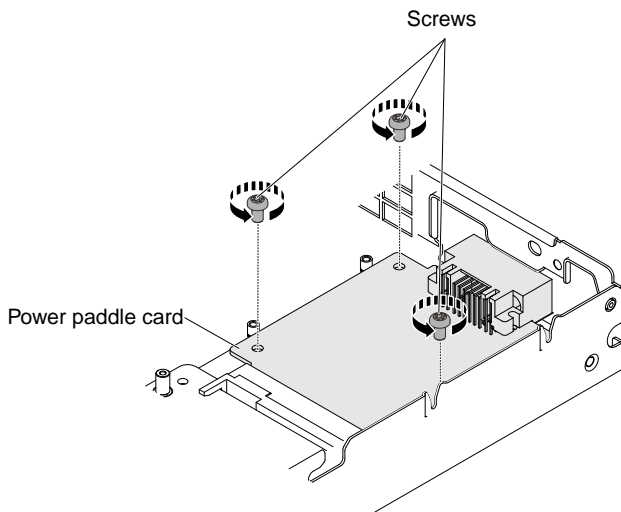


Figure 79. Power distribution board screws removal

- Step 5. Remove the power distribution board out of the water-cooled technology tray with an angle.

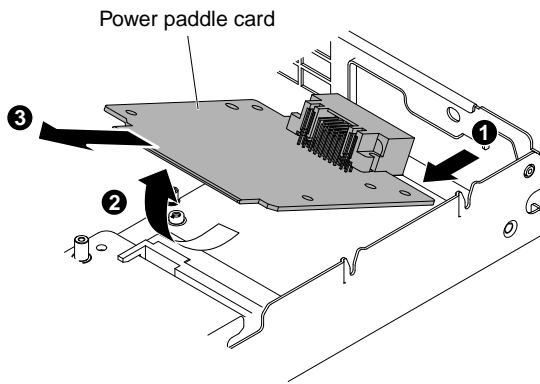


Figure 80. Power distribution board removal

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

Replacing the power distribution board

Use this information to install the power distribution board.

Read the safety information in Safety and Installation guidelines.

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 141 and “Installing a water-cooled technology tray in a chassis” on page 142 sections.

To install the power distribution board, complete the following steps:

- Step 1. Turn off the water-cooled technology tray and peripheral devices and disconnect the power cords and all external cables.
- Step 2. Remove the cover (see “Removing the cover” on page 144).
- Step 3. Place the power distribution board on the mounting studs in the water-cooled technology tray with an angle.

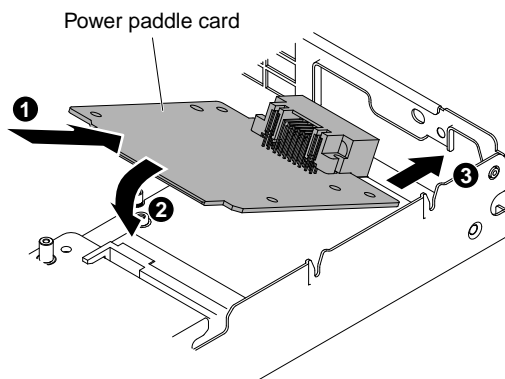


Figure 81. Power distribution board installation

- Step 4. Install the three screws that secure the power distribution board to the water-cooled technology tray.

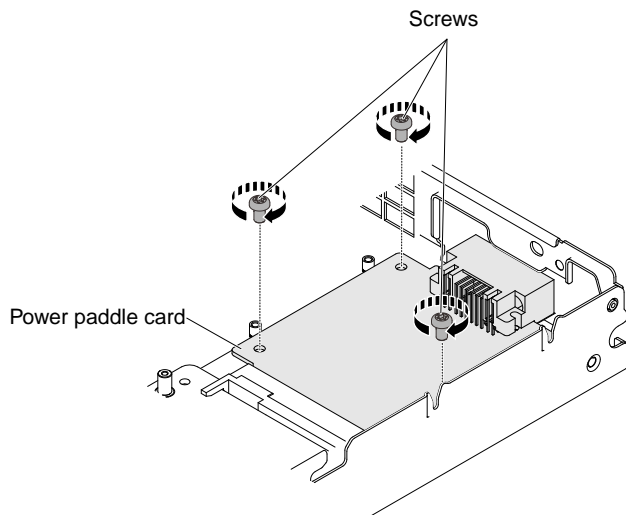


Figure 82. Power distribution board screws installation

Step 5. Install the rear bulkhead bracket.

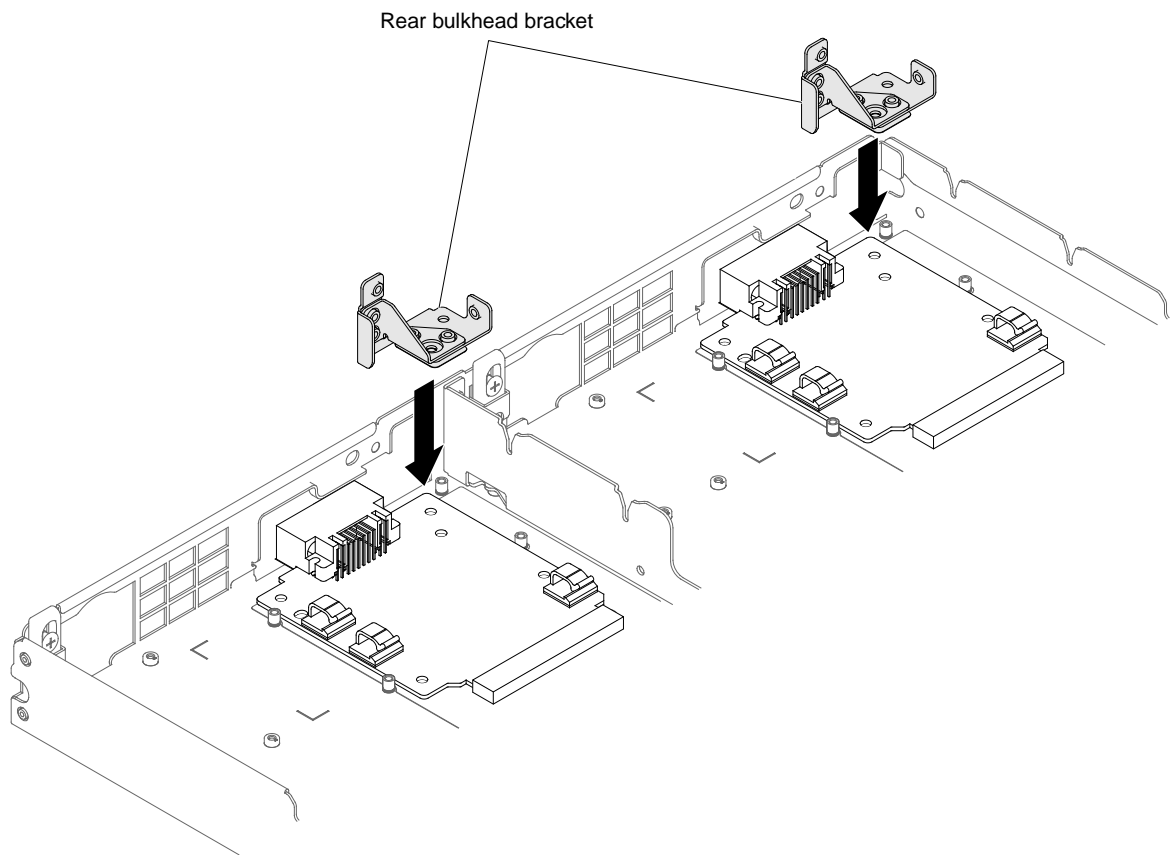


Figure 83. Rear bulkhead bracket installation

Step 6. Install the screws on the rear bulkhead bracket.

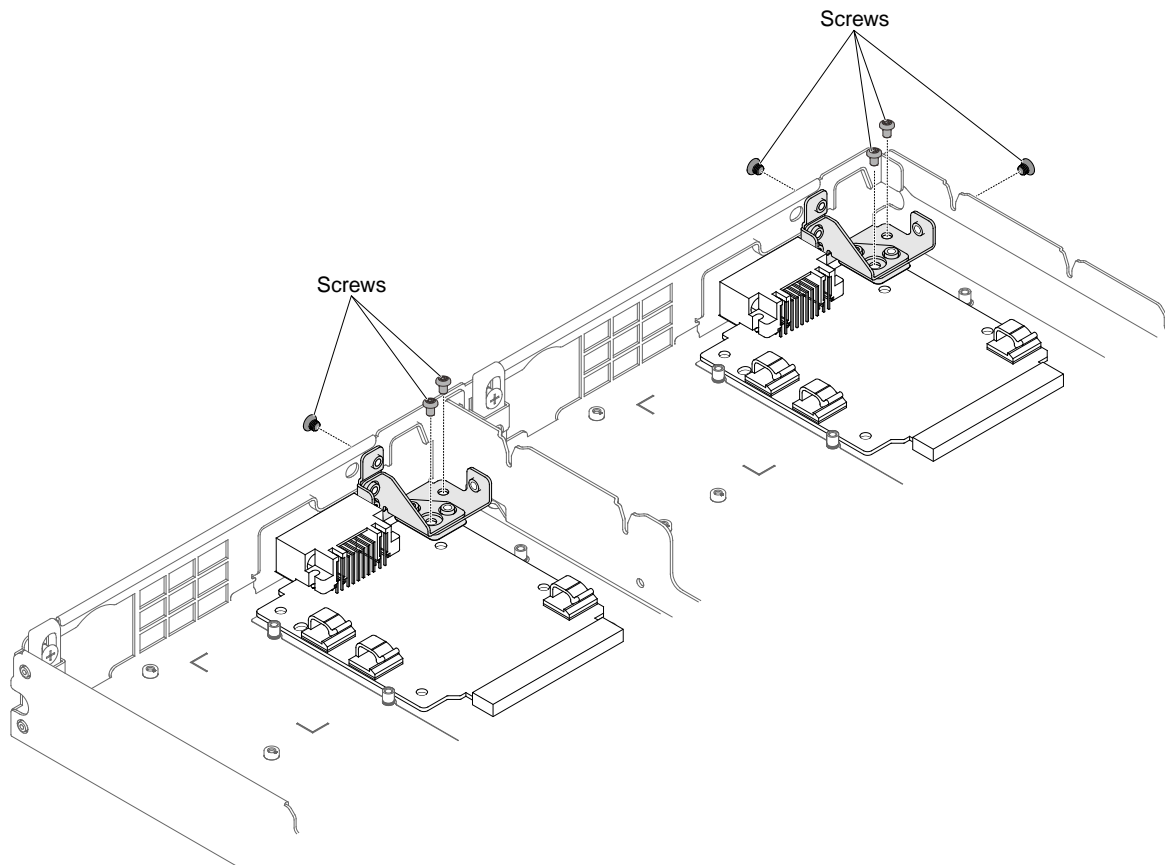


Figure 84. Rear bulkhead bracket screws installation

- Step 7. Reinstall the cover (see “Replacing the cover” on page 144).
- Step 8. Slide the compute node into the rack.
- Step 9. Reconnect the power cords and any cables that you removed.
- Step 10. Turn on the peripheral devices and the compute node.

Removing a copper water loop

Use this information to remove a copper water loop.

Attention:

- Copper water loop supports Intel Xeon E5-2600 v3 and v4 series.
- 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 and Installation guidelines.

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 141 and “Installing a water-cooled technology tray in a chassis” on page 142 sections.

To remove a water loop, complete the following steps.

Step 1. Remove the cover (see “Removing the cover” on page 144).

Step 2. Remove the cross brace.

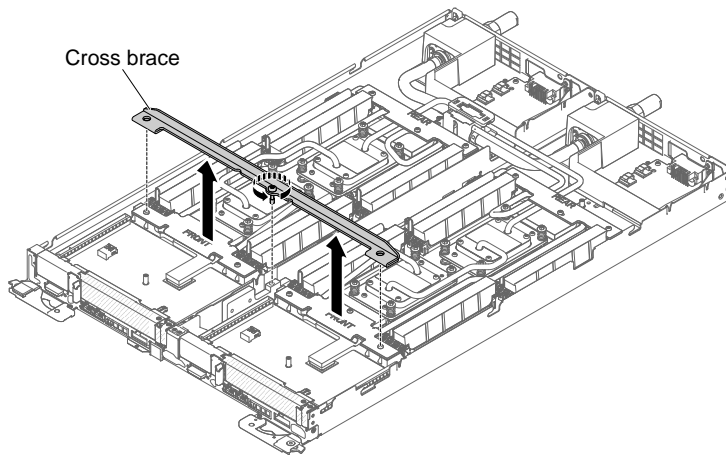


Figure 85. Cross brace removal

Step 3. Remove the front and rear clamp plates (12 screws).

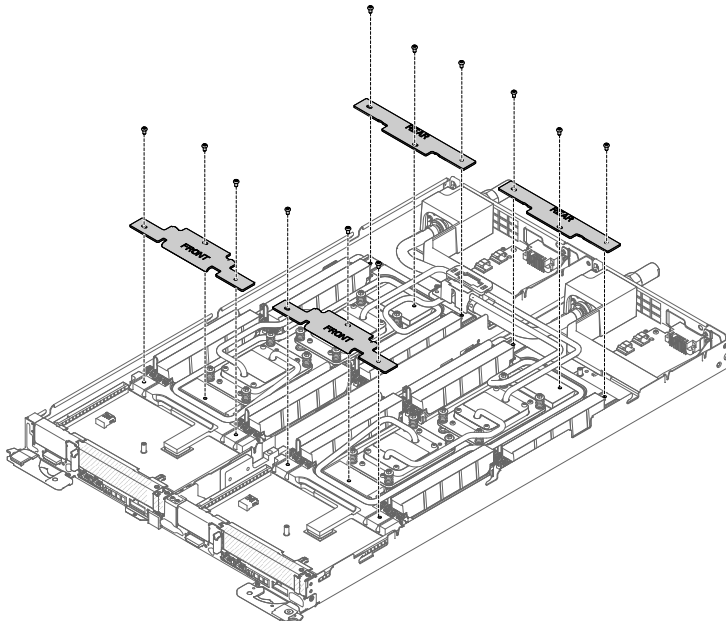


Figure 86. Clamp plates removal

Step 4. Loosen cold plate captive screws (16 screws).

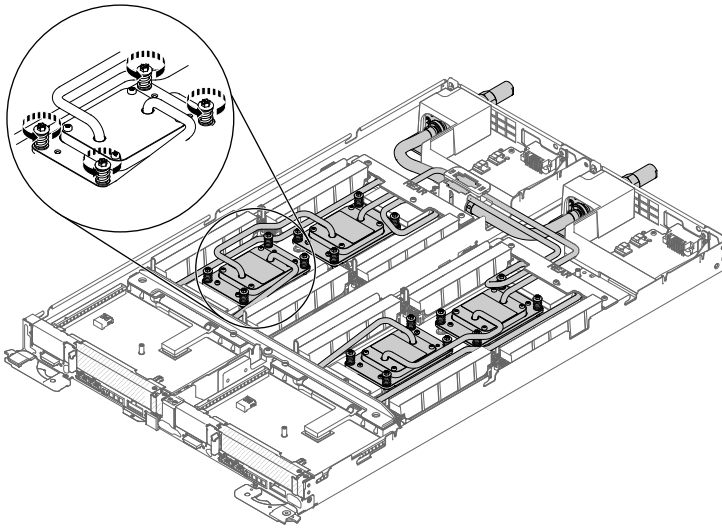


Figure 87. Loosen cold plate captive screws

Step 5. Remove air baffles from rear of the node 2x places.

Step 6. Remove quick connection assembly screws (8 screws).

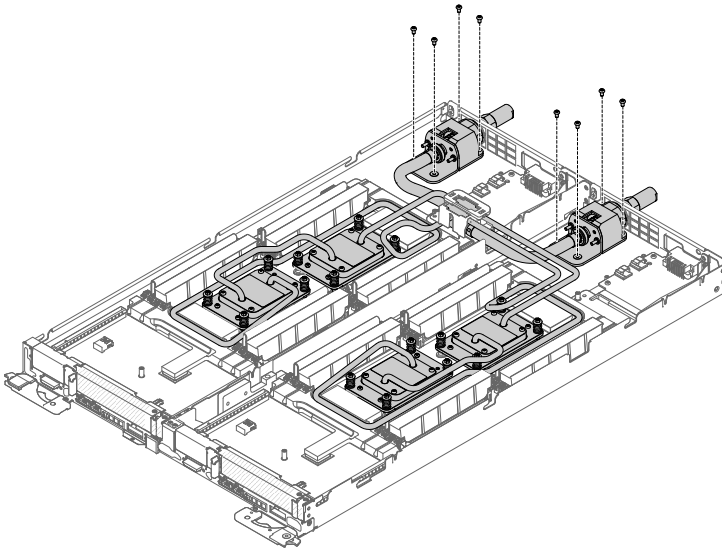


Figure 88. Quick connection assembly screws removal

Step 7. Unhook the quick connection assemblies from the planar tray.

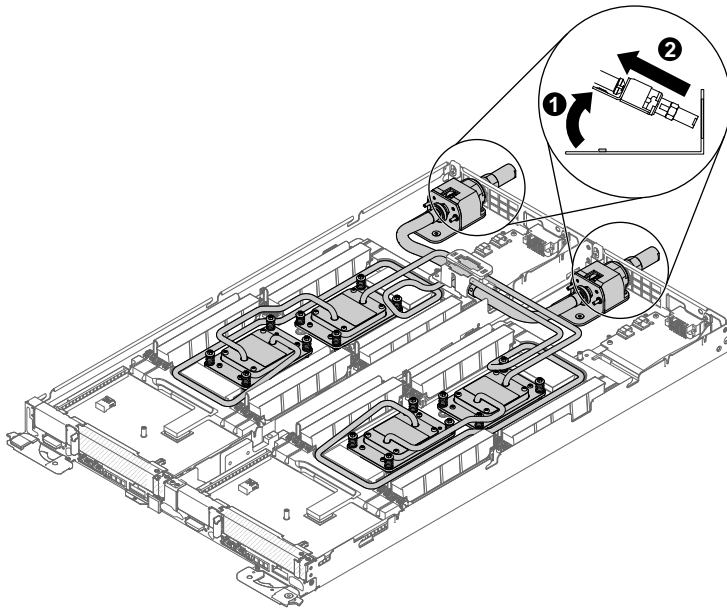


Figure 89. Unhook the quick connection assemblies from the planar tray

Step 8. Remove the copper water loop from the planar tray.

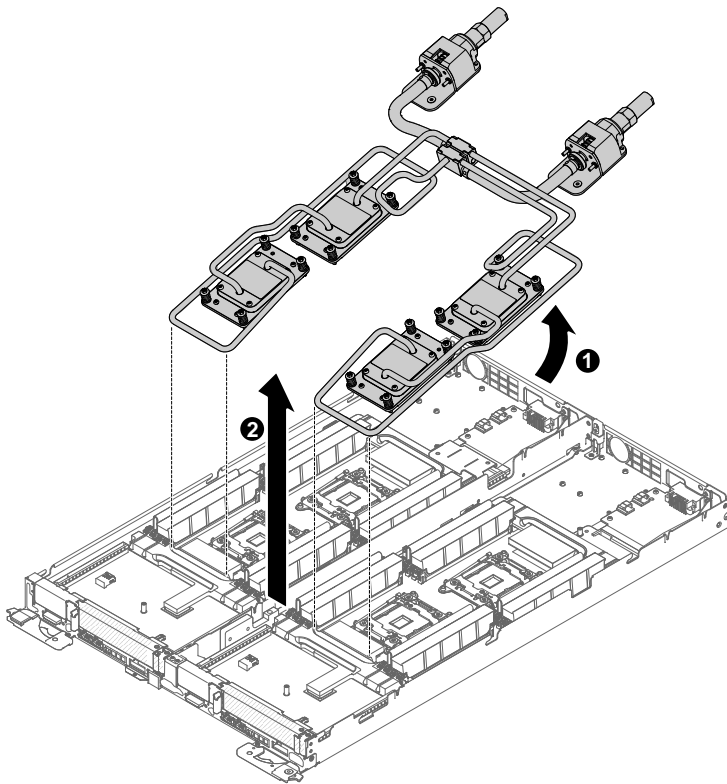


Figure 90. Copper water loop removal

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

Replacing a copper water loop

Use this information to replace a copper water loop.

Attention:

- Copper water loop supports Intel Xeon E5-2600 v3 and v4 series.
- Copper water loop is to be installed only by trained technicians.
- Make sure the water loop of the microprocessors are properly greased.
- The copper water loop FRU is packaged with the protective bracket on the top.
- If reusing the water loop apply new grease using the *9 dot* 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 and Installation guidelines.

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 141 and “Installing a water-cooled technology tray in a chassis” on page 142 sections.

To install a copper water loop, complete the following steps.

Step 1. Turn off the server and peripheral devices.

Attention: When you handle static-sensitive devices, take precautions to avoid damage from static electricity.

Step 2. Remove the cover (see “Removing the cover” on page 144).

Step 3. If you are installing a new copper water loop, remove the plastic protective cover from the bottom of the copper water loop.

Step 4. Align and place the copper water loop on the pocket of the wall which is parallel to the front side of the planar tray.

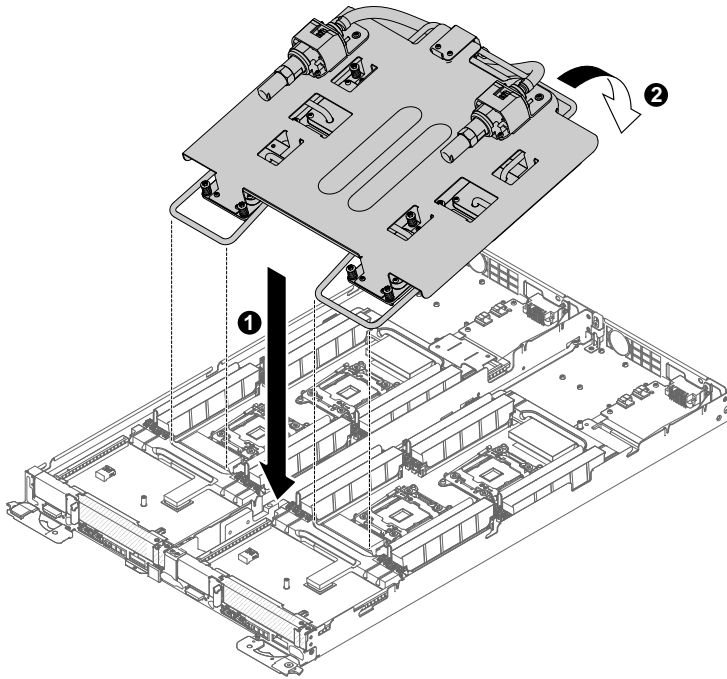


Figure 91. Copper water loop installation

Step 5. Remove quick connection assembly screws (8 screws) from the water loop.

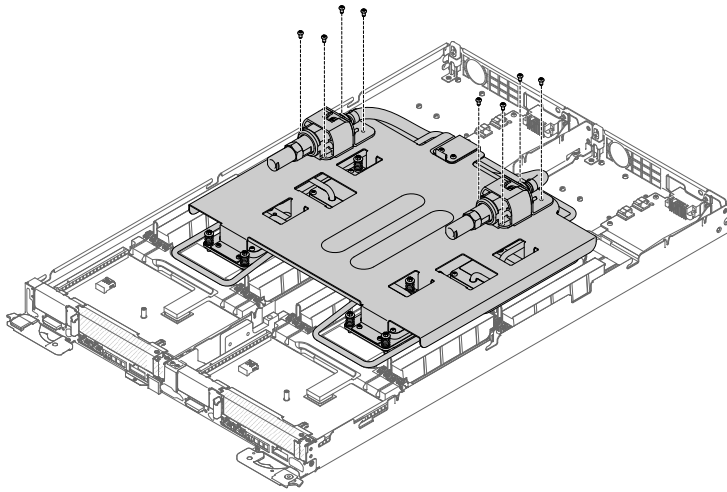


Figure 92. Quick connection assembly screws removal

Step 6. Hook two quick connect assemblies to the planar tray.

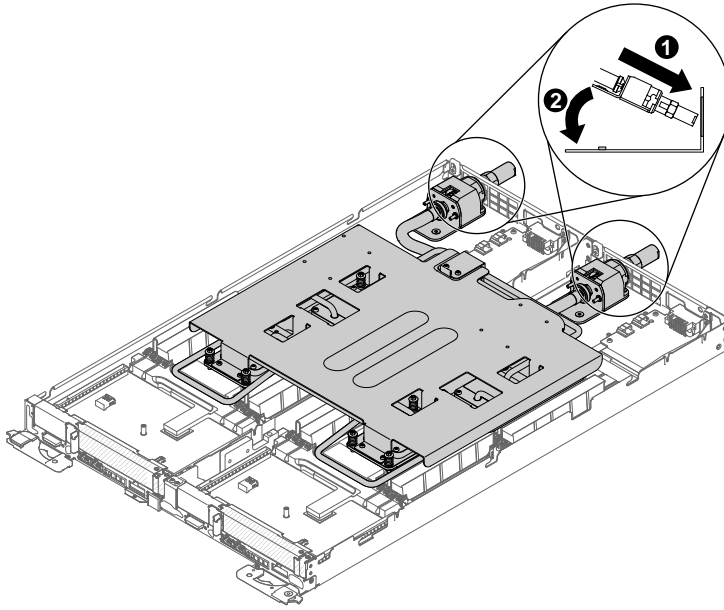


Figure 93. Quick connect assemblies installation

Step 7. Install 8 quick connect assembly screws into the planar tray.

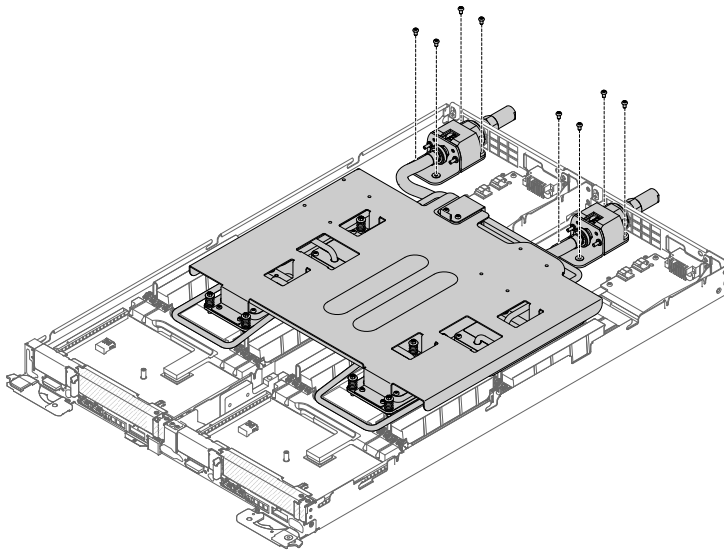


Figure 94. 8 quick connect assembly screws installation

Step 8. Remove the junction block support plate (2 screws).

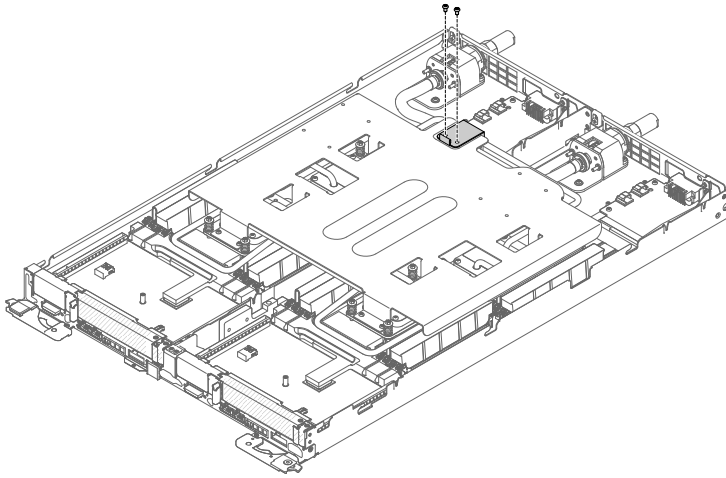


Figure 95. Junction block support plate removal

Step 9. Remove the 12 screws from the copper water loop protective bracket.

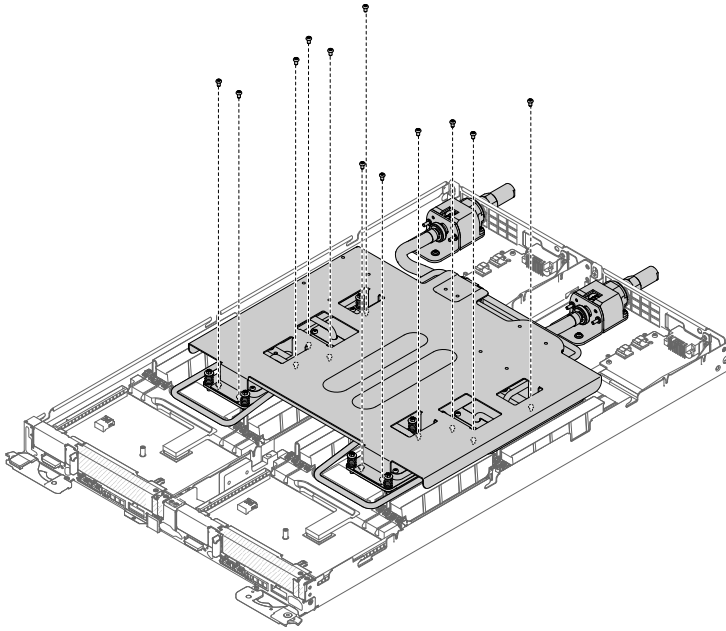


Figure 96. 12 screws from the copper water loop protective bracket removal

Step 10. Remove the copper water loop protective bracket.

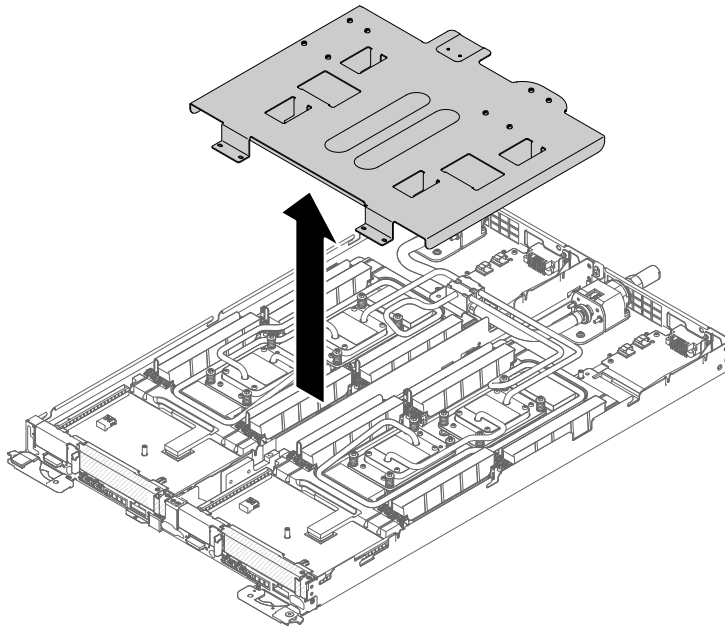


Figure 97. Copper water loop protective bracket removal

Step 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).

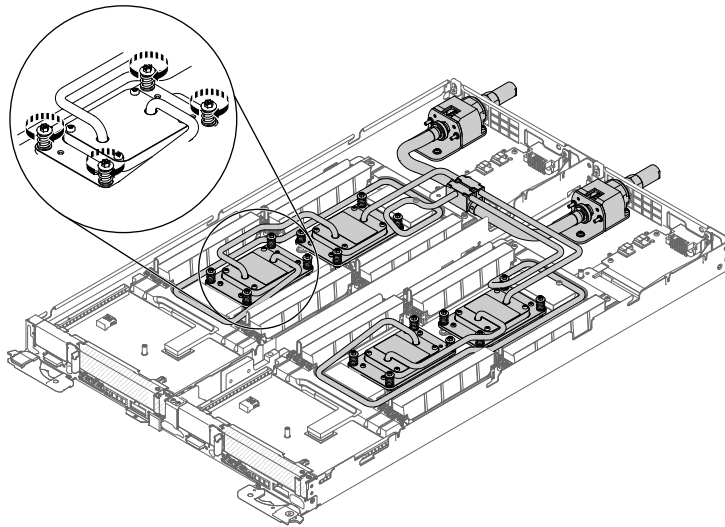


Figure 98. Tighten cold plate captive screws

Step 12. Install the front and rear clamp plates. (12 screws).

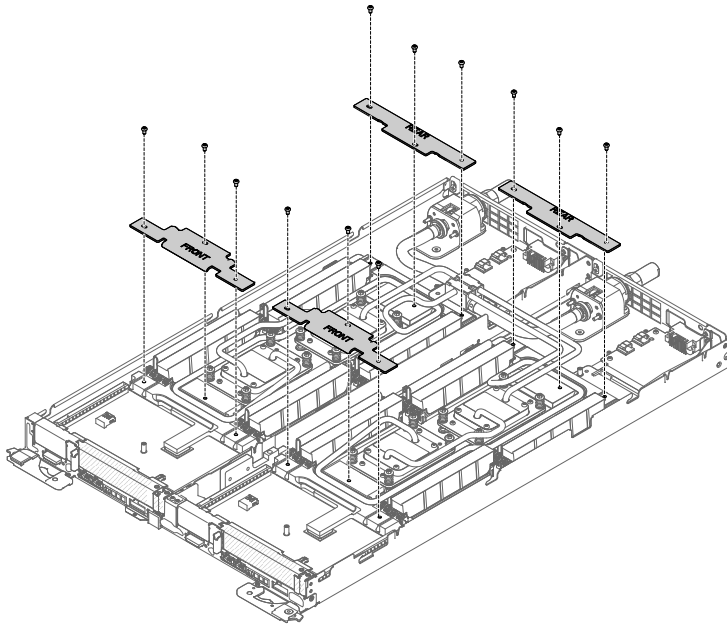


Figure 99. Clamp plates installation

Step 13. Install the junction block retention bracket.

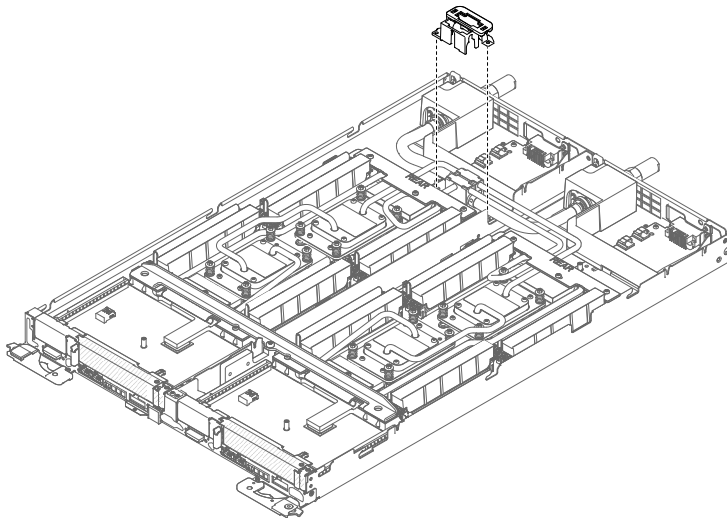


Figure 100. Junction block retention brackets installation

Step 14. Reinstall the cross brace using M4 screw.

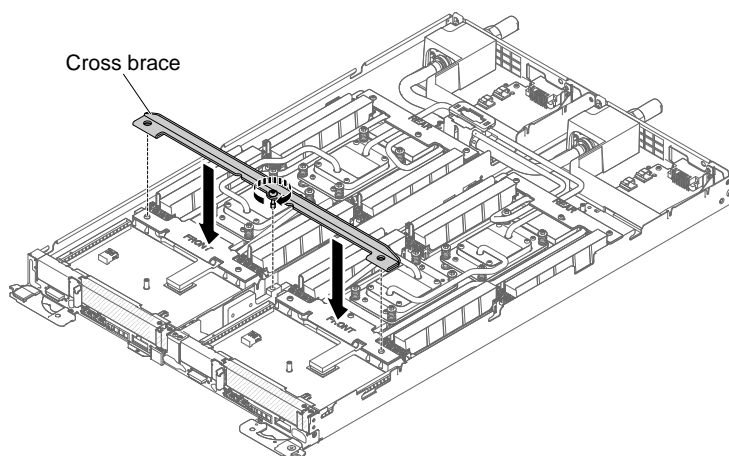


Figure 101. Cross brace installation

Step 15. Install the cover (see “Replacing the cover” on page 144).

Step 16. Slide the server into the rack.

Step 17. Reconnect any cables that you removed.

Step 18. Turn on the peripheral devices and the server.

Removing a microprocessor

Use this information to remove a microprocessor.

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://www.lenovo.com/support> 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 and Installation guidelines.

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 141 and “Installing a water-cooled technology tray in a chassis” on page 142 sections.

To remove a microprocessor, complete the following steps.

- Step 1. Remove the cover (see “Removing the cover” on page 144).
- Step 2. Remove the cross brace.
- Step 3. Remove the front and rear clamp plates.

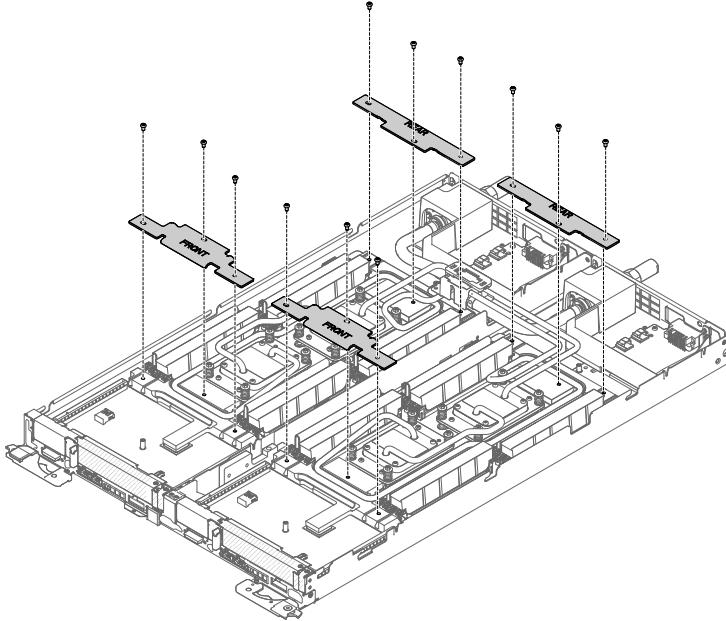


Figure 102. Water Loop retention brackets removal

- Step 4. Loosen cold plate captive screws (16 screws).

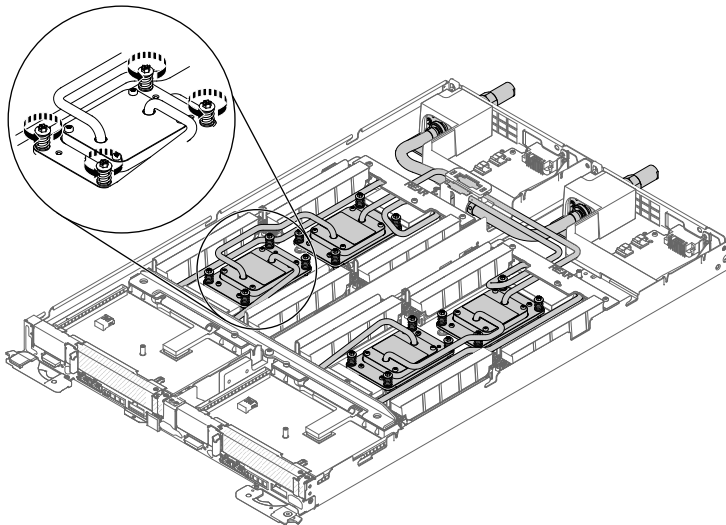


Figure 103. Loosen cold plate captive screws

- Step 5. Remove the air baffles, if needed.
- Step 6. Rotate the water loop back over the power boards.

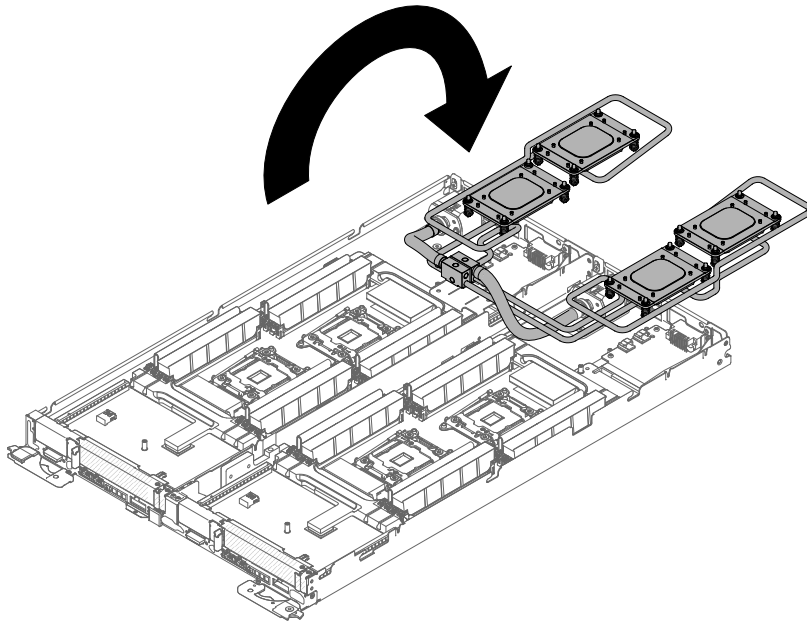


Figure 104. Water loop rotated

Step 7. Open the microprocessor socket release levers and retainer.

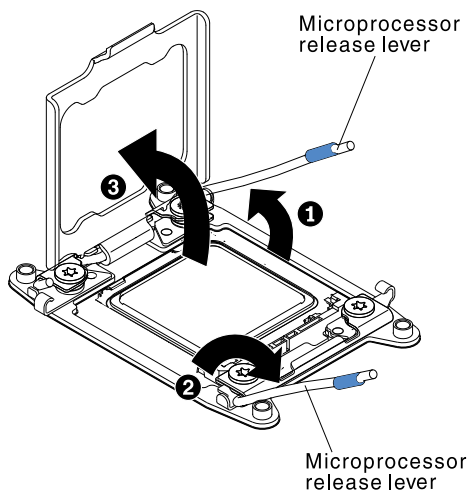


Figure 105. Microprocessor socket levers and retainer disengagement

- 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.

Step 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, lift the interlock latch and hold it up while you 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.

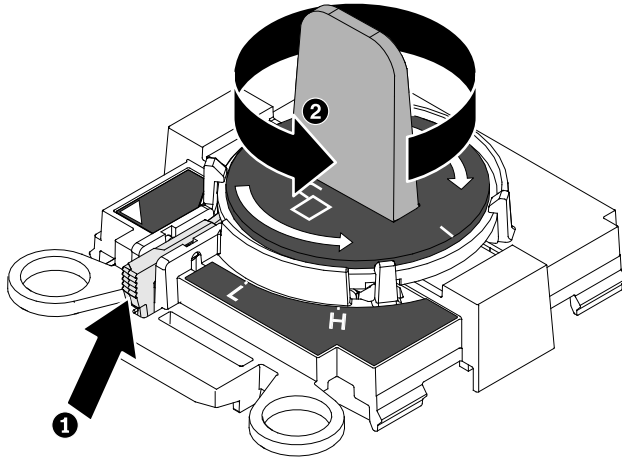


Figure 106. Installation tool handle adjustment

- 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.

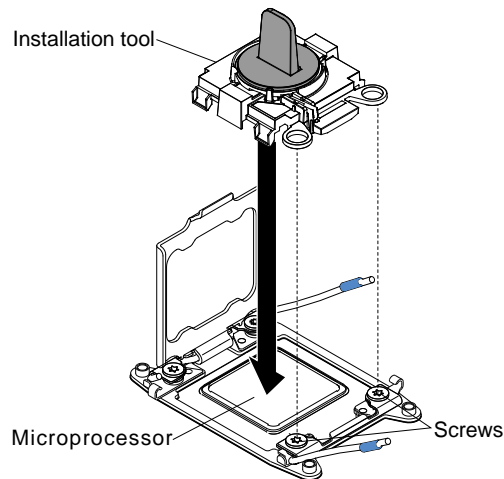


Figure 107. Microprocessor installation

- 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.

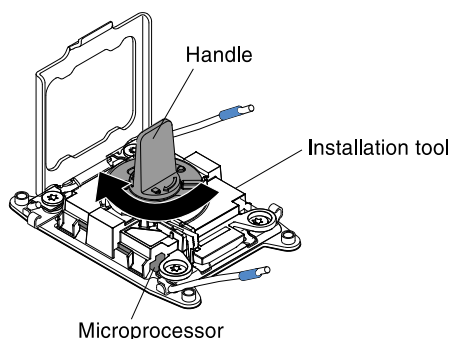


Figure 108. Installation tool handle adjustment

- d. Lift the microprocessor out of the socket.

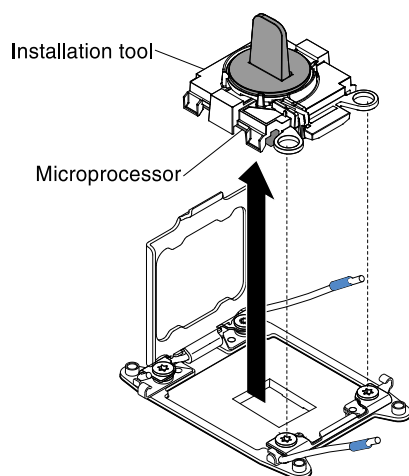


Figure 109. Microprocessor removal

- 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.

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.

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 v4 series multi-core microprocessors. See <http://www.lenovo.com/serverproven/> for a list of supported microprocessors.
- Do not mix microprocessors with different cores in the same server.

- All four microprocessors 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 146 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://www.lenovo.com/support>.
- 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 and Installation guidelines.

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 141 and “Installing a water-cooled technology tray in a chassis” on page 142 sections.

To install a microprocessor and water loop, complete the following steps.

Step 1. Turn off the server and peripheral devices.

Attention: When you handle static-sensitive devices, take precautions to avoid damage from static electricity.

Step 2. Remove the cover (see “Removing the cover” on page 144).

Step 3. Open the microprocessor socket release levers and retainer:

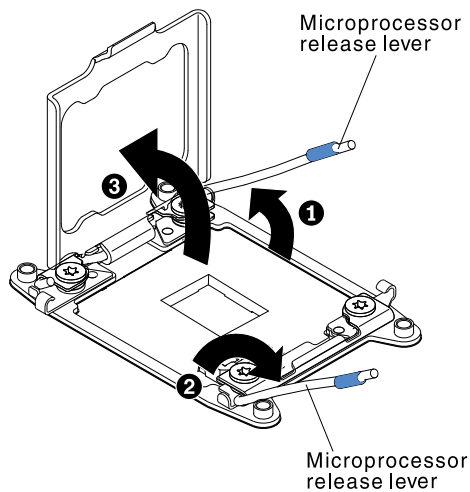


Figure 110. Microprocessor socket levers and retainer disengagement

- 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.

- Step 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.

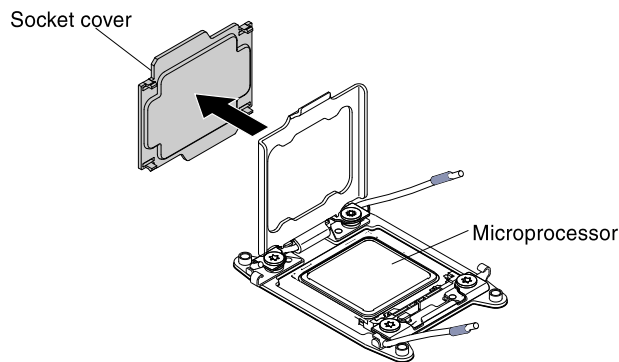


Figure 111. Socket cover removal

Attention: When you handle static-sensitive devices, take precautions to avoid damage from static electricity.

- Step 5. Close the microprocessor socket release levers and retainer:

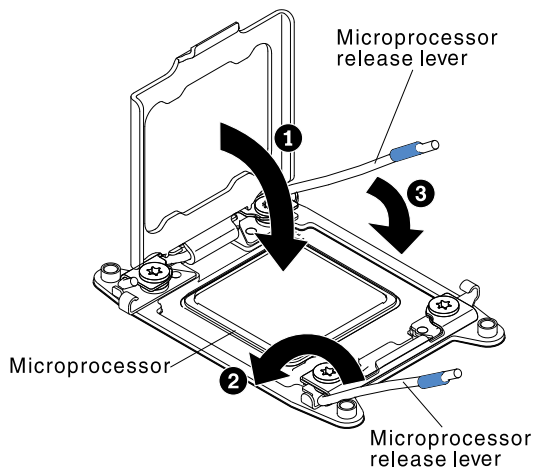


Figure 112. Microprocessor socket levers and retainer engagement

- 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.

- Step 6. Install the water loop on the planar tray (see “Replacing a copper water loop” on page 176).
- Step 7. Install the cross brace using M4 screw.
- Step 8. Install the cover (see “Replacing the cover” on page 144).
- Step 9. Slide the server into the rack.
- Step 10. Reconnect any cables that you removed.
- Step 11. Turn on the peripheral devices and the server.

Removing the system board

Use this information to remove the system board.

Read the safety information in Safety and Installation guidelines.

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 141 and “Installing a water-cooled technology tray in a chassis” on page 142 sections.

Notes:

1. When you replace the system board, you must either update the server with the latest firmware or restore the pre-existing firmware that the customer provides on a diskette or CD image. Make sure that you have the latest firmware or a copy of the pre-existing firmware before you proceed.
2. When you replace the system board, make sure that you remove the Integrated Management Module 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 42

Note: You have to reactivate the Features on Demand (FoD) after replacing the system board.

3. When you replace the system board, you must either update the server with the latest firmware or restore the pre-existing firmware that the customer provides on a diskette or CD image. Make sure that you have the latest firmware or a copy of the pre-existing firmware before you proceed.

To remove the system board, complete the following steps.

Step 1. Remove the cover (see “Removing the cover” on page 144).

Step 2. Remove the cross brace.

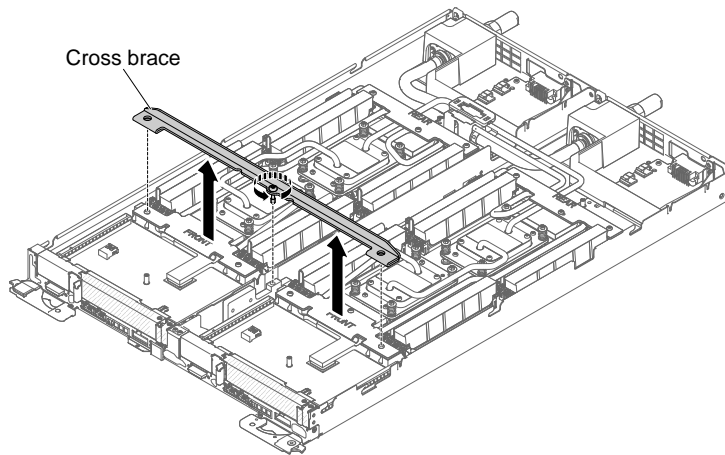


Figure 113. Cross brace removal

Step 3. Remove the interposer filler (1 captive screw).

Step 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 the optional PCI or ML2 adapter” on page 158)

DIMMs, DIMM covers, and DIMM fillers (see “Removing a DIMM” on page 145)

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 167)

Remove the water loop (see “Removing a copper water loop” on page 172)

Microprocessors (see “Removing a microprocessor” on page 182)

Notes:

1. Transfer microprocessors into new system board before removing the old system board.
2. 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.
3. 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.

- Step 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.
- Step 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.

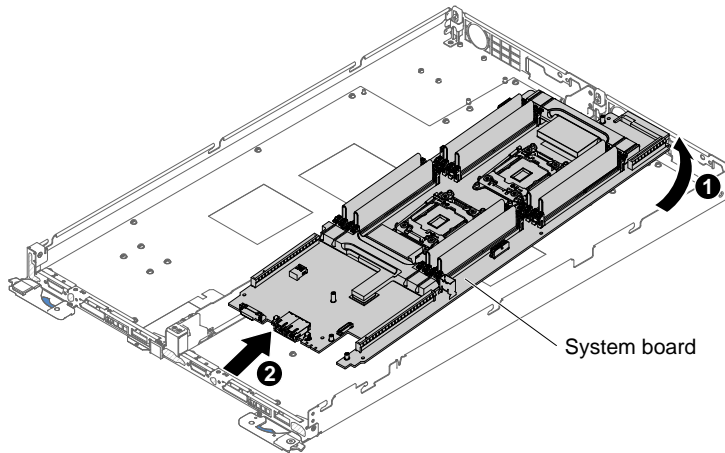


Figure 114. System board removal

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.

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.

Read the safety information in Safety and Installation guidelines.

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 141 and “Installing a water-cooled technology tray in a chassis” on page 142 sections.

Notes:

1. When you reassemble the components in the server, be sure to route all cables carefully so that they are not exposed to excessive pressure.
2. When you replace the system board, you must either update the server with the latest firmware or restore the pre-existing firmware from a diskette or CD image. Make sure that you have the latest firmware or a copy of the pre-existing firmware before you proceed. See “Updating the firmware” on page 31, “Updating the Universal Unique Identifier (UUID)” on page 47, and “Updating the DMI/SMBIOS data” on page 49.

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 42
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 <https://fod.lenovo.com/lkms>, log in, and click **Help**.
5. Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.

To replace the system board, complete the following steps.

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

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.

- Step 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.

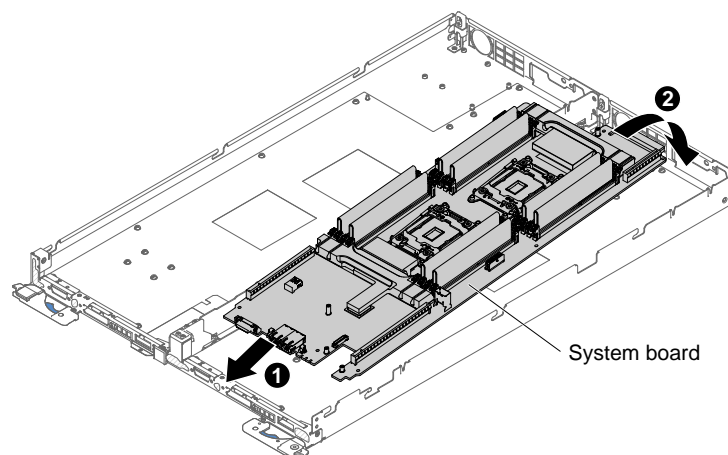


Figure 115. System board installation

- Step 3. Install any of the following components that you removed from the system board:

Notes:

- Make sure that none of the server cables are caught under the system board.
- Corresponding miscellaneous part should be installed after replacing the system planar. (see “Replaceable server components” on page 89)

Microprocessor (see “Replacing a microprocessor” on page 186)

Install the water loop (See “Replacing a copper water loop” on page 176)

Power distribution board and air baffle (see “Replacing the power distribution board” on page 170)

DIMMs, DIMM fillers, and DIMM covers (see “Installing a DIMM” on page 149)

Adapters and risers

Step 4. Reinstall the cross brace using M4 screw.

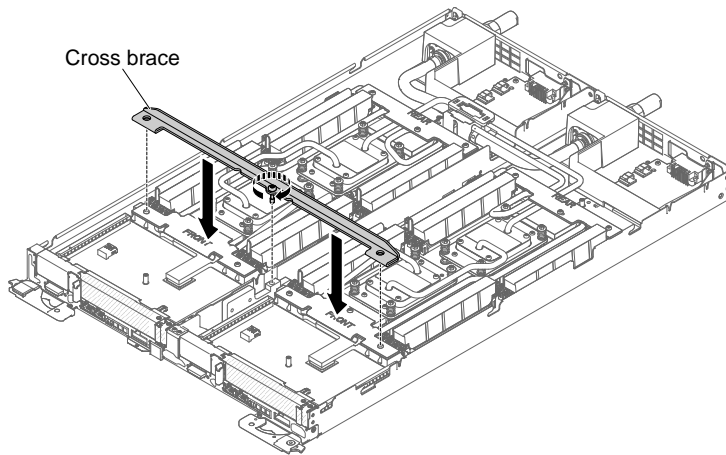


Figure 116. Cross brace installation

- Step 5. Reinstall the cover (see “Replacing the cover” on page 144).
- Step 6. Slide the water-cooled technology tray into the chassis (see “Installing a water-cooled technology tray in a chassis” on page 142).
- Step 7. Start the Setup utility and reset the configuration.
- Set the system date and time.
 - Set the power-on password.
 - Reconfigure the server.

See “Using the Setup utility” on page 34 for details.

- Step 8. Either update the server with the latest RAID firmware or restore the pre-existing firmware from a diskette or CD image.
- Step 9. Update the UUID (see “Updating the Universal Unique Identifier (UUID)” on page 47).
- Step 10. Update the DMI/SMBIOS (see “Updating the DMI/SMBIOS data” on page 49).
- Step 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 remove the chassis midplane, complete the following steps:

- Read “Safety” on page v and “Installation guidelines” on page 28
- 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.
 - Chassis is operating:
 - 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.

To remove the chassis midplane, complete the following steps.

Step 1. Remove the compute nodes in the front of the chassis.

Step 2. Remove all EMC shields on both sides.

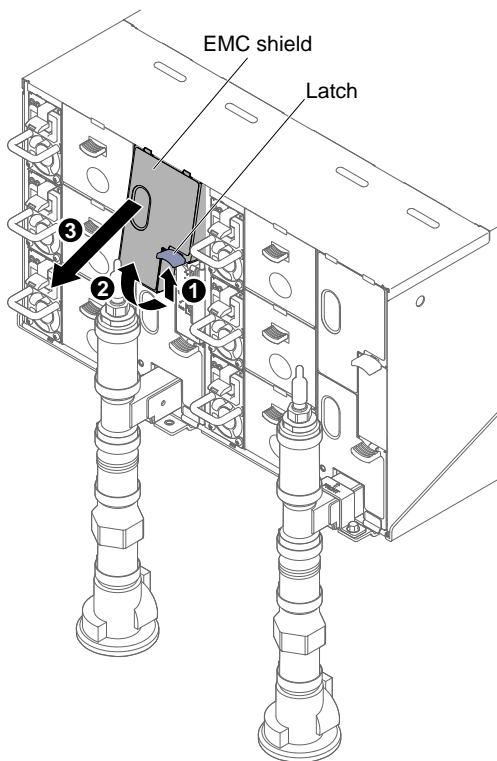


Figure 117. Upper EMC shields removal

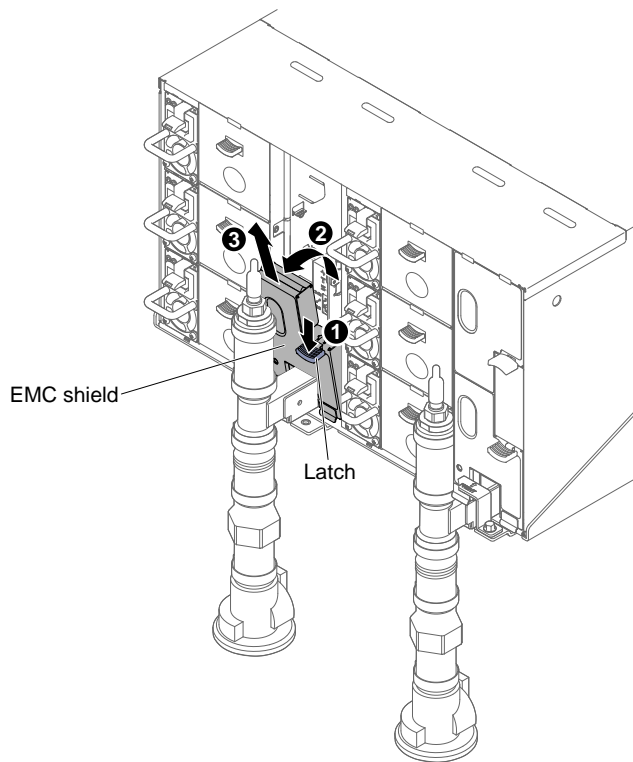


Figure 118. Lower EMC shields removal

Step 3. Remove manifold retention brackets that are retaining manifolds (top enclosure position only).

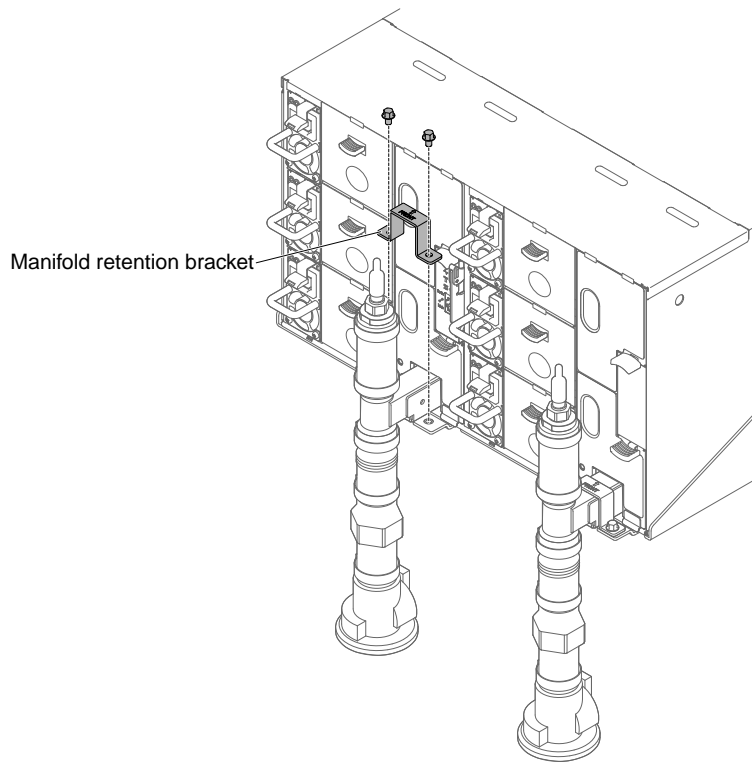


Figure 119. Retention bracket removal

Step 4. Push the latch up upwards and slide the drip sensor assembly backwards, then; lift the drip sensor assembly up to clear sensor post and pull it out of the enclosure.

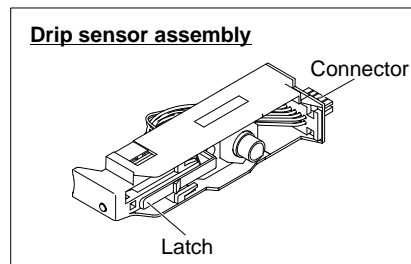
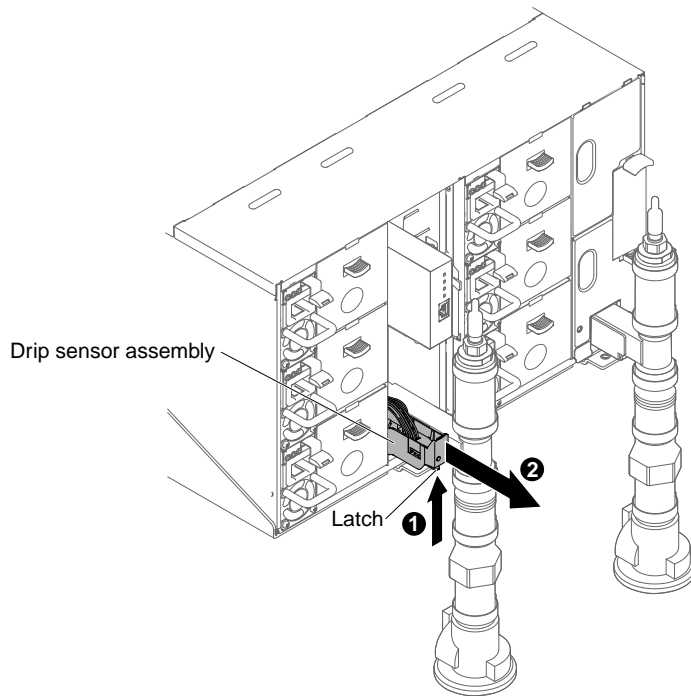


Figure 120. Drip sensor assembly removal

Step 5. Remove FPC card module and FPC card module support bracket.

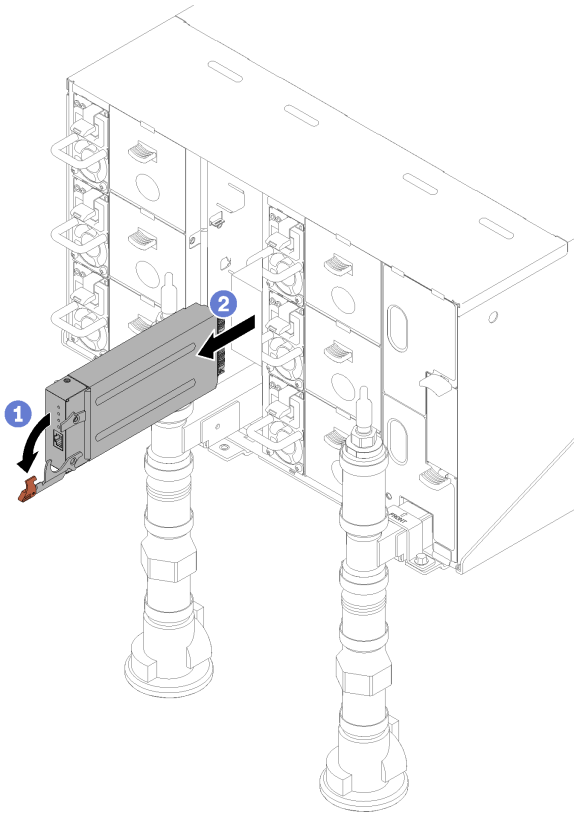


Figure 121. FPC card module removal

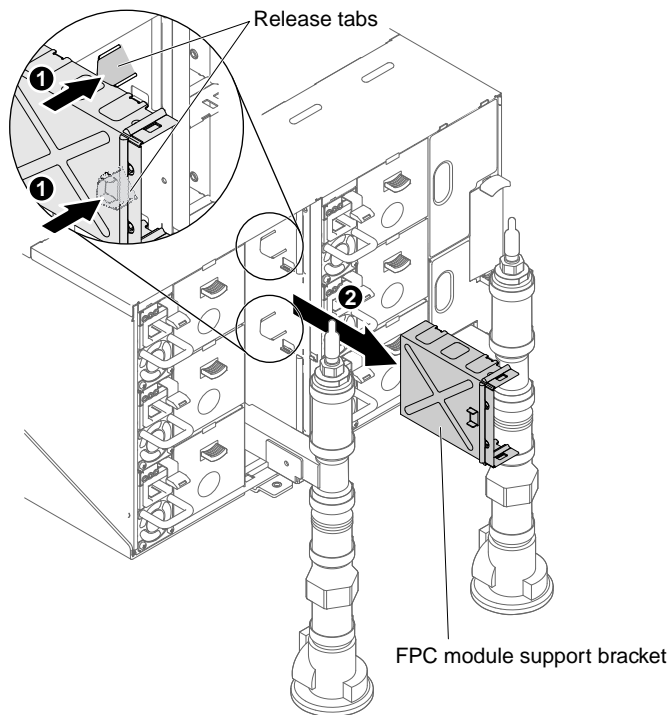


Figure 122. Support bracket removal

Step 6. Remove the blank filler.

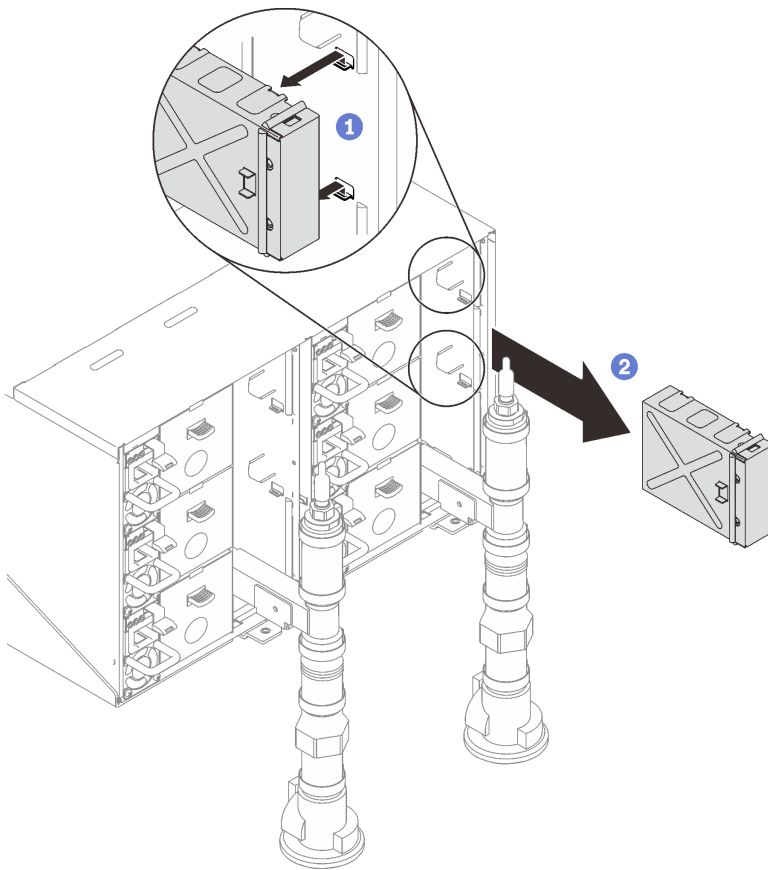


Figure 123. Blank filler removal

Step 7. Remove all power supplies from the enclosure.

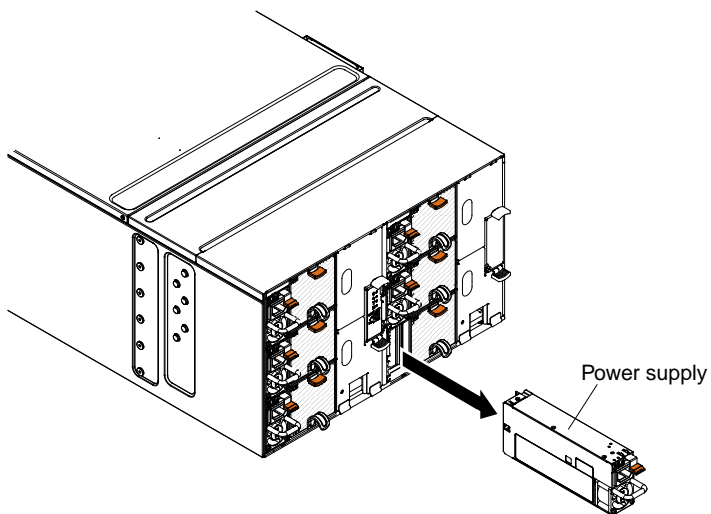


Figure 124. Hot-swap power supply removal

Step 8. Remove eight screws (using the screwdriver contained in the manifold repair kit) to loosen two manifolds from the enclosure.

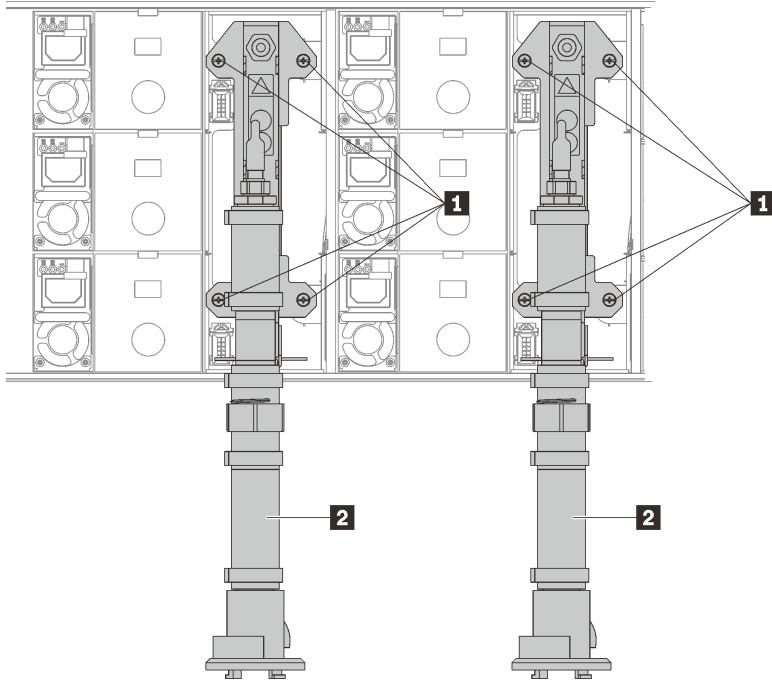


Figure 125. Manifold screw locations

Table 24. Manifold screw locations

1 Screws	2 Manifold
-----------------	-------------------

Step 9. Remove eight screws to remove two support brackets on both sides.

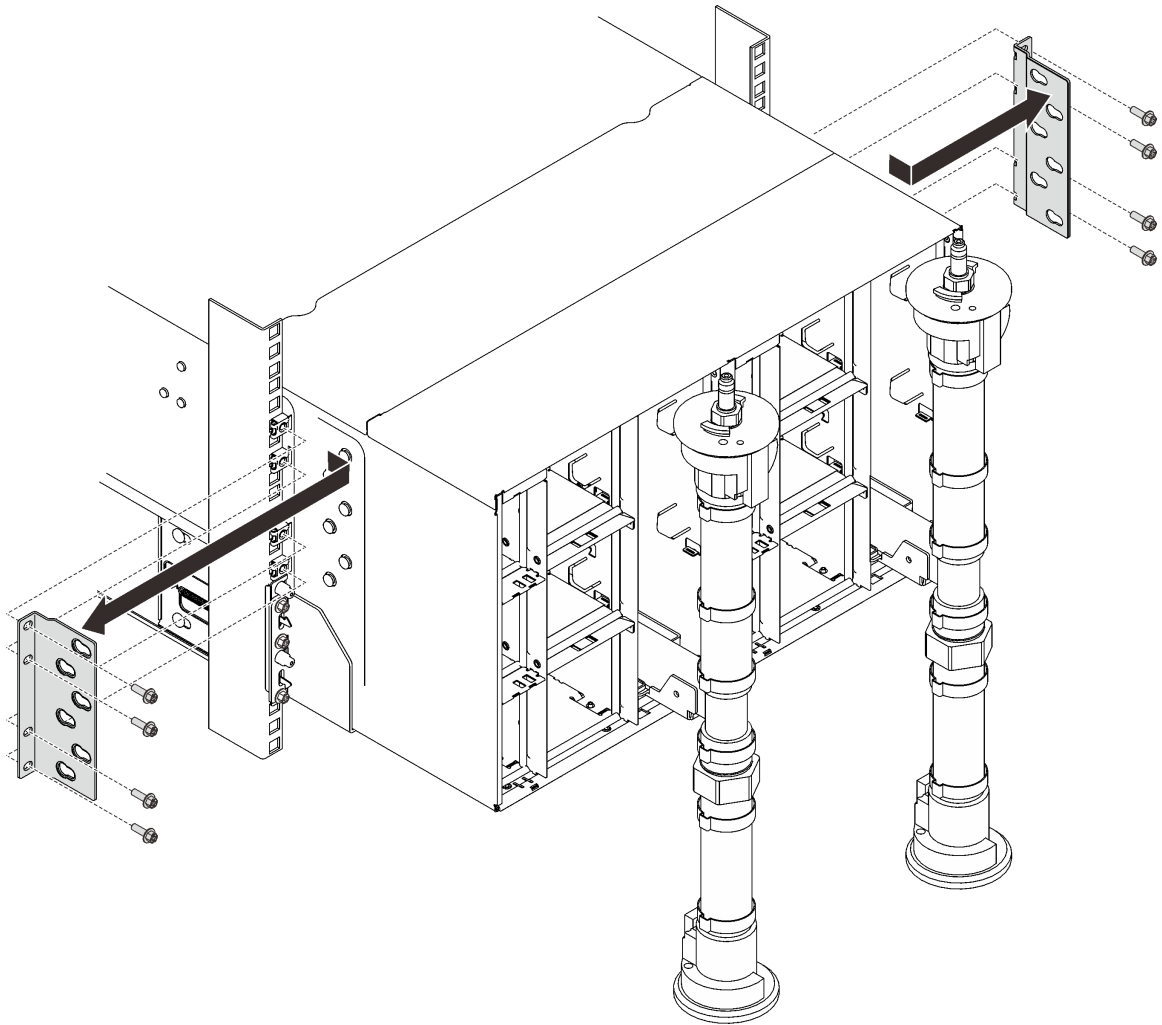


Figure 126. Support bracket removal

Step 10. Remove two EIA covers at the front of the enclosure, then, remove eight screws.

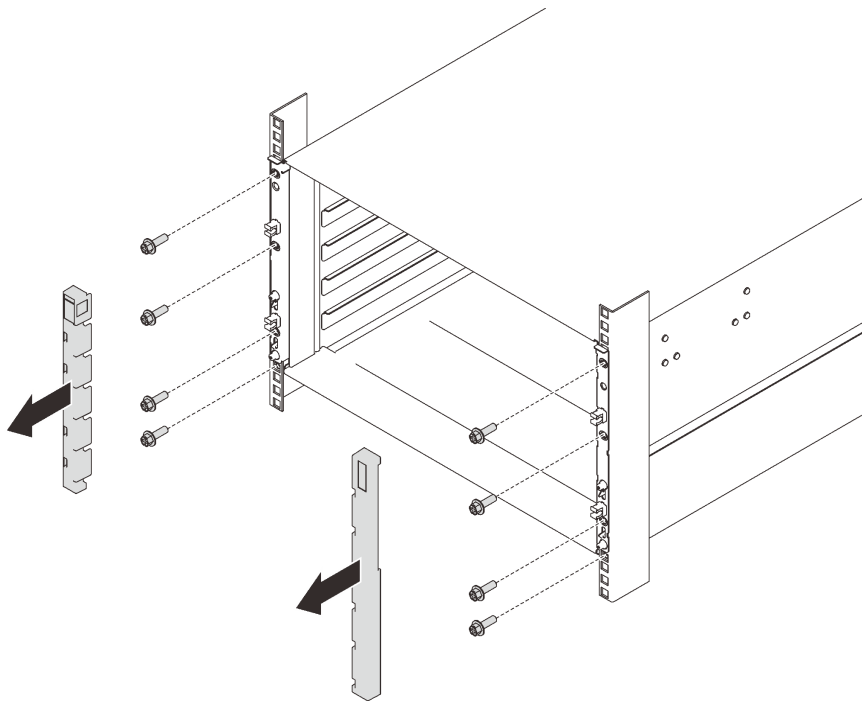


Figure 127. EIA cover removal

Step 11. Slide the enclosure out of the rack.

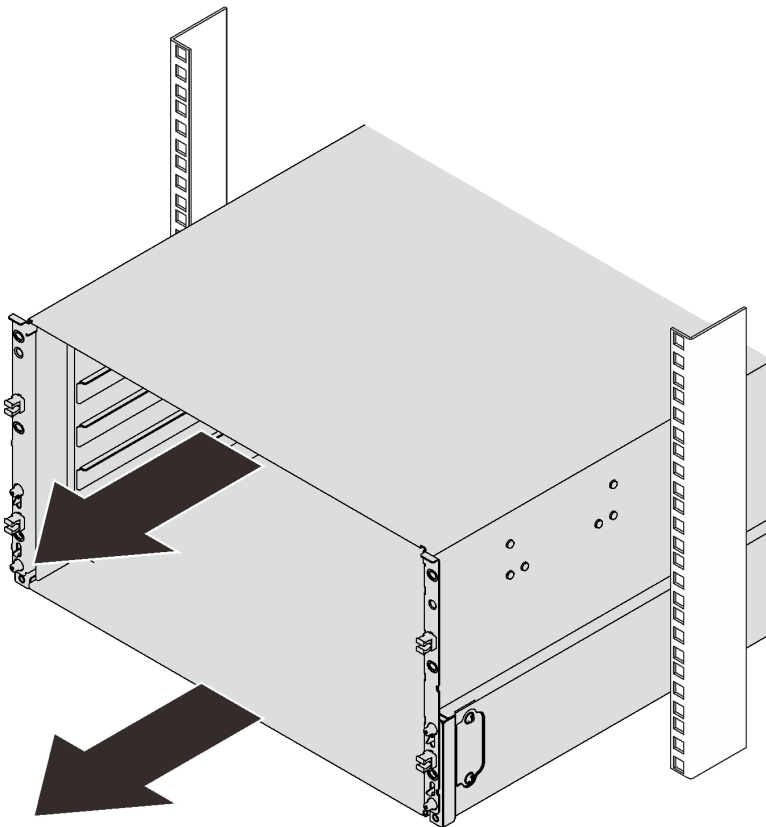


Figure 128. Sliding the enclosure

Step 12. Loosen the three captive screws on the top cover.

Step 13. Rotate the top cover outwards.

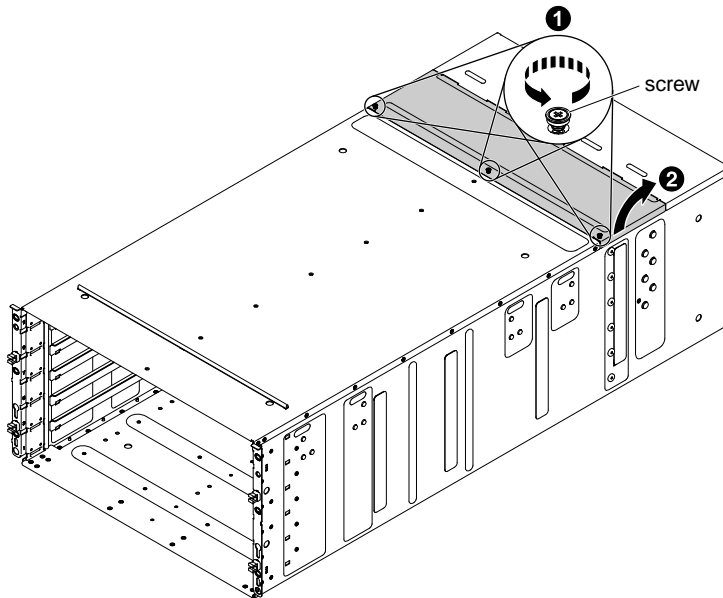


Figure 129. Top cover outward rotation

Step 14. Loosen the three captive screws that secure the chassis midplane to the chassis.

Step 15. 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.

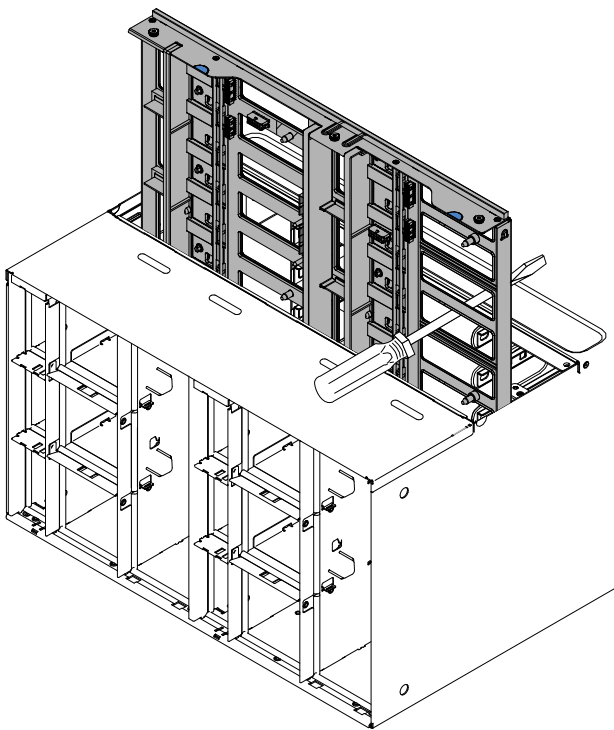


Figure 130. Removal of the chassis midplane from a chassis

Step 16. Unplug the two fan cables on chassis midplane

Step 17. 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.

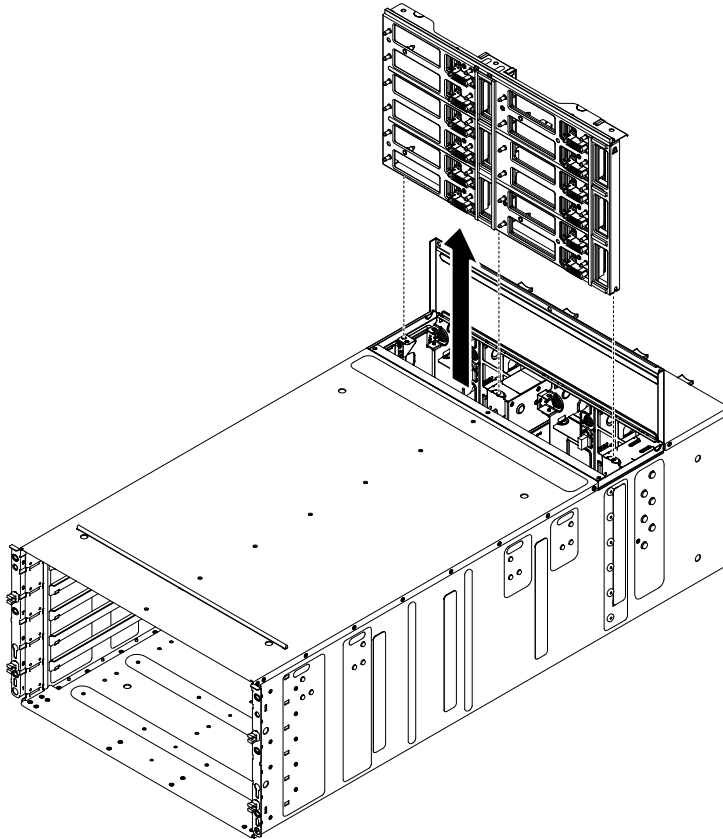


Figure 131. Removal of the chassis midplane from a chassis

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.

To install the chassis midplane, complete the following steps.

Step 1. Carefully align the chassis midplane with the guide pins in the chassis.

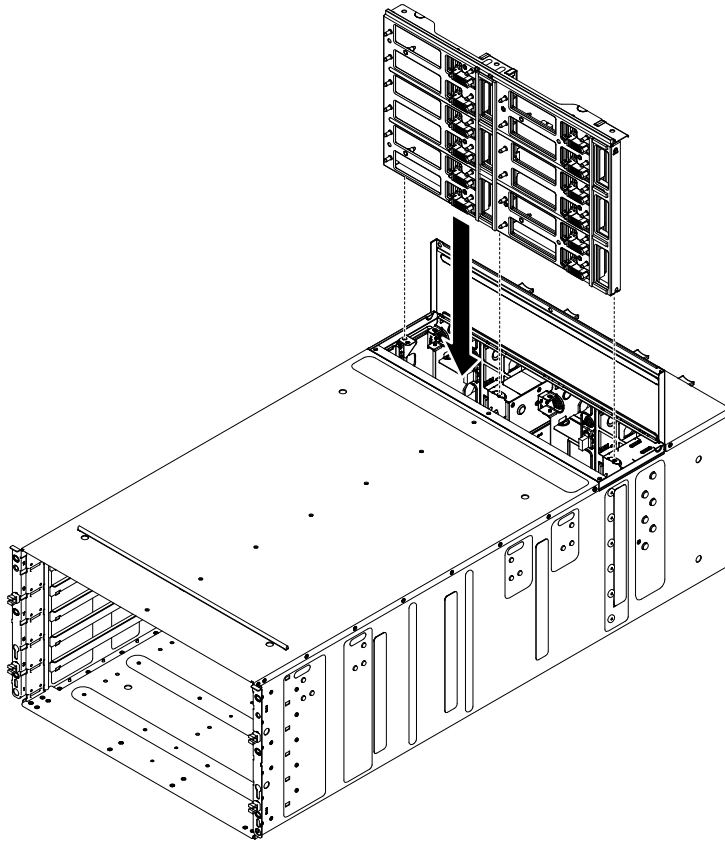


Figure 132. Installation of a chassis midplane into a chassis

- Step 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.

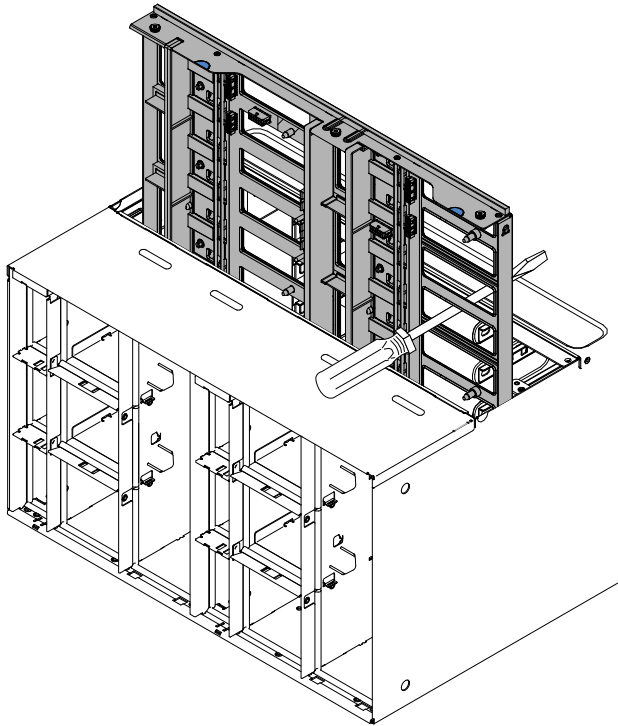


Figure 133. Installation of a chassis midplane into a chassis

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.

- Step 3. Connect the two cables back to fan power connectors and fan signal connectors back to the chassis midplane.
- Step 4. Slide the chassis midplane all the way into the chassis until it stops.
- Step 5. Tighten the three captive screws that secure the chassis midplane to the chassis.
- Step 6. Rotate the top cover inwards.
- Step 7. Tighten the three captive screws on the top cover.

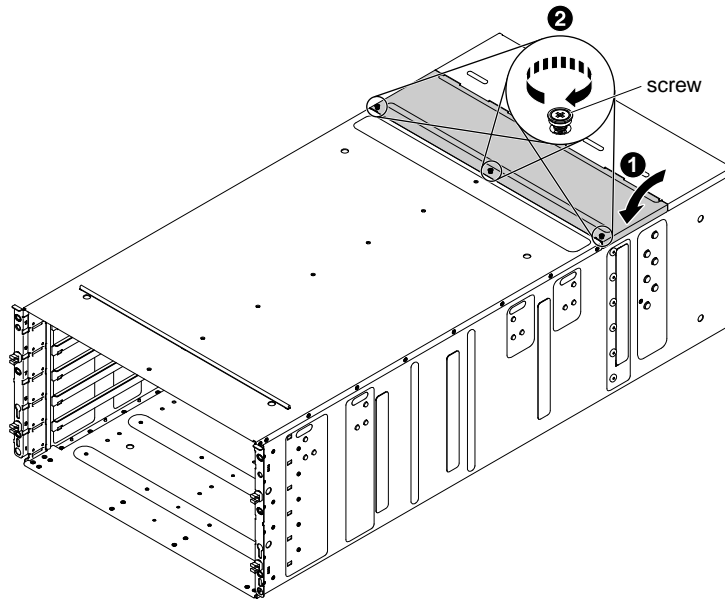


Figure 134. Top cover inward rotation

Reassemble the chassis and program the vital product data (VPD) that is stored on the card. Complete the following steps:

1. Slide the enclosure into the rack.

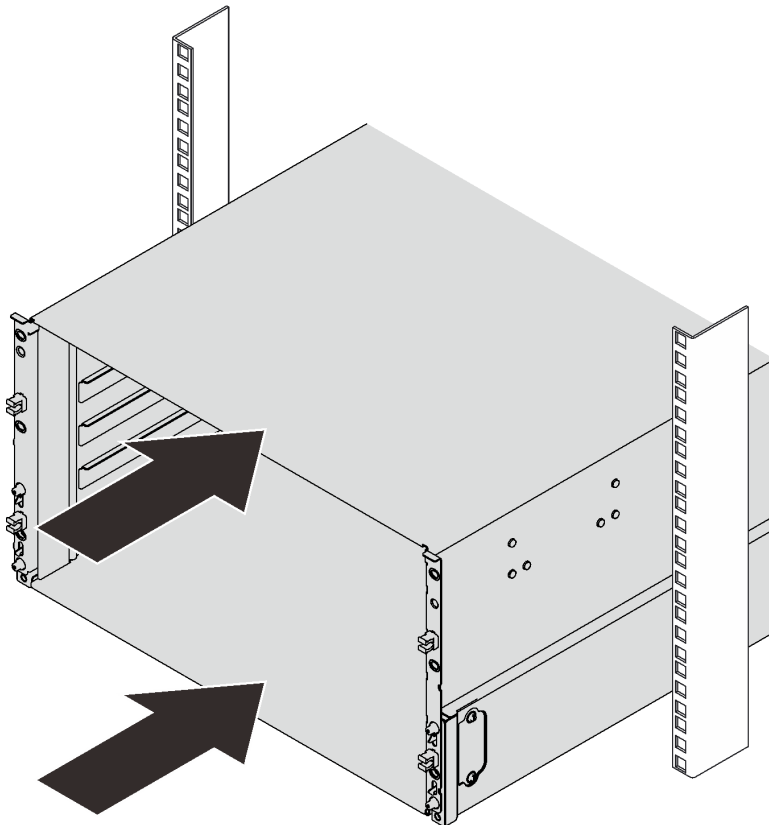


Figure 135. Sliding the enclosure

2. Reinstall two EIA covers at the front of the enclosure; then, reinstall eight screws.

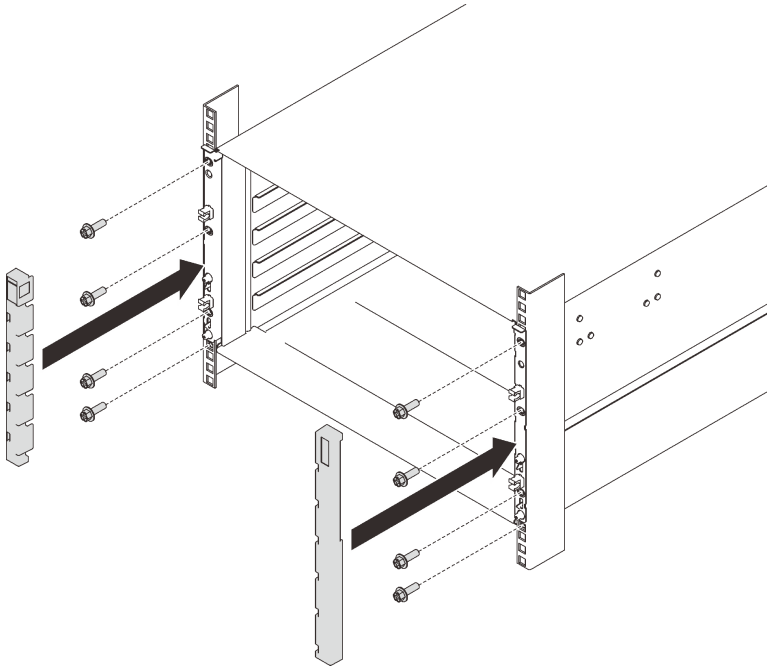


Figure 136. EIA cover installation

3. Reinstall eight screws to secure two support brackets on the rear enclosure.

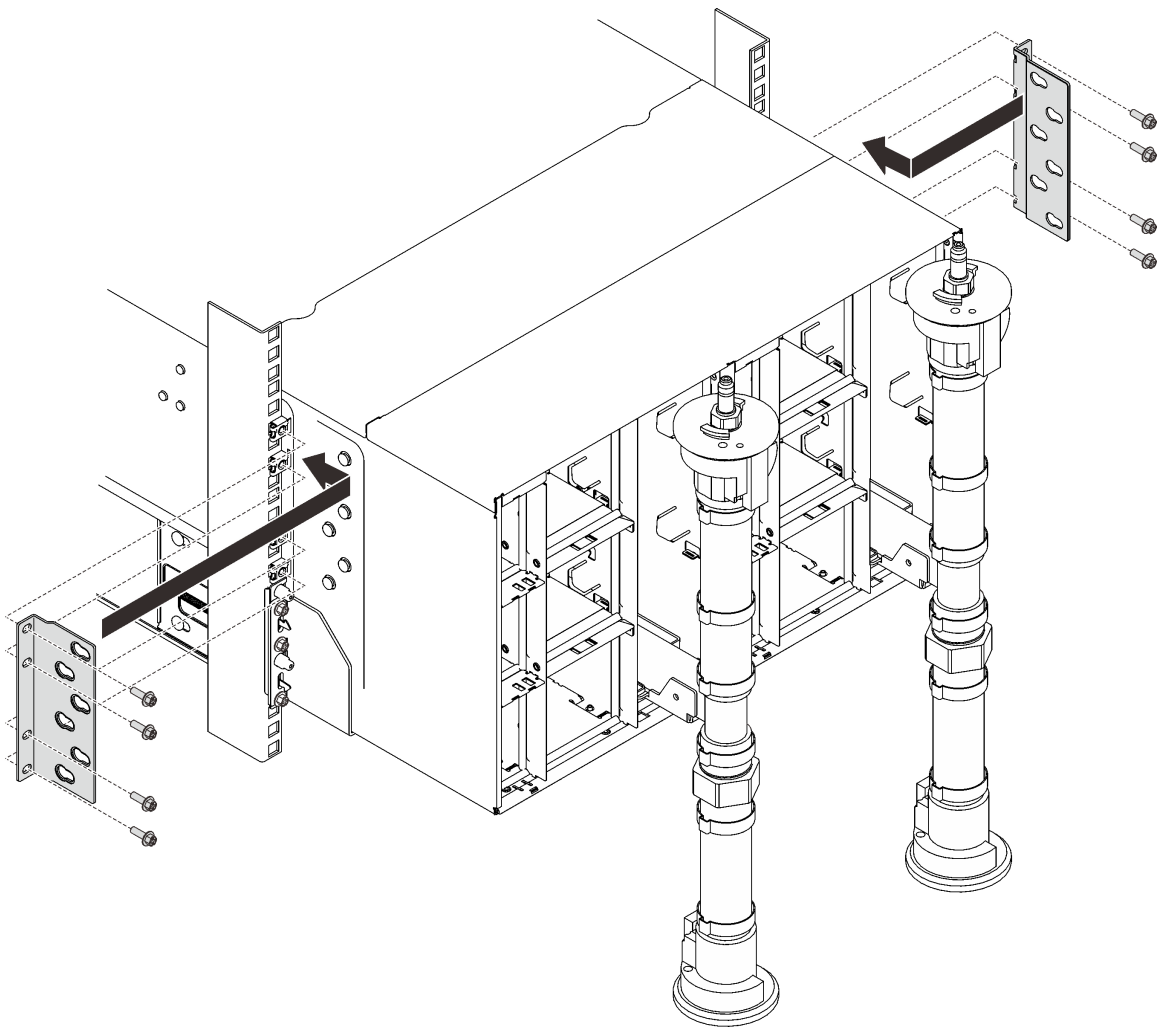


Figure 137. Support bracket installation

4. Reinstall eight screws (using the screwdriver contained in the manifold repair kit) to secure two manifolds.

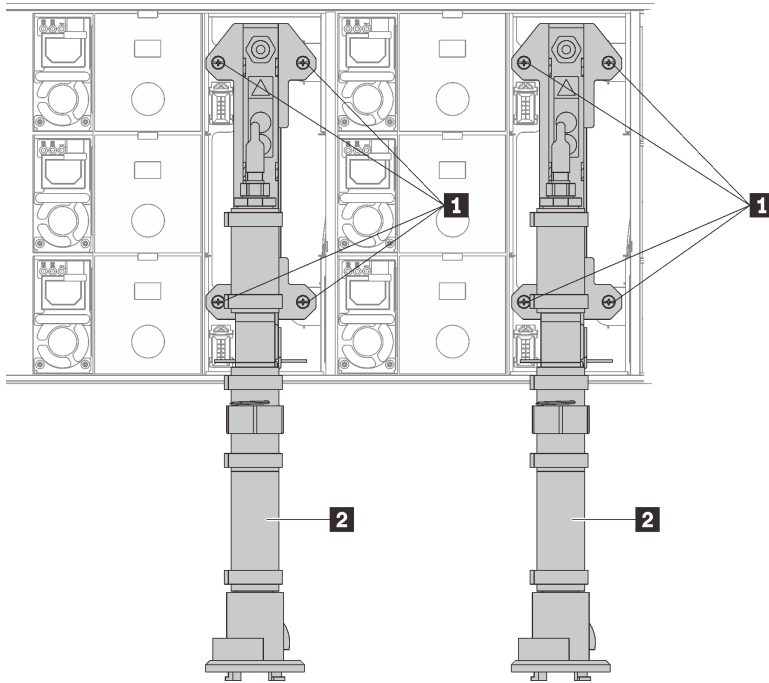


Figure 138. Manifold screw locations

Table 25. Manifold screw locations

1 Screws	2 Manifold
-----------------	-------------------

- Reinstall all power supplies back to the enclosure.

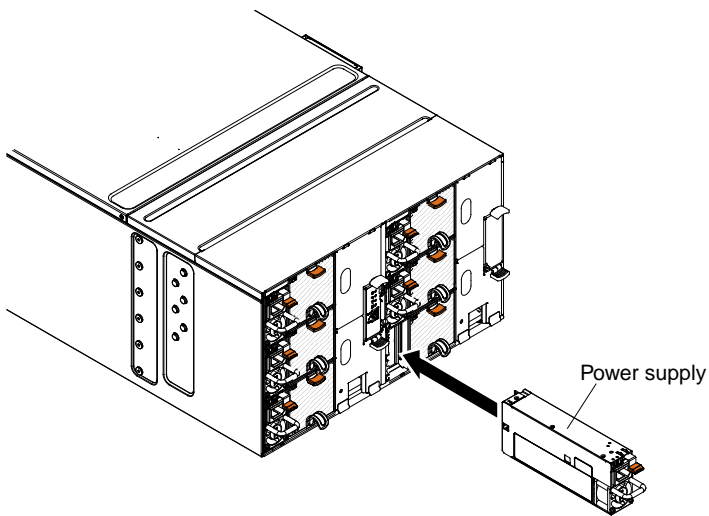


Figure 139. Hot-swap power supply installation

- Reinstall the blank filler.

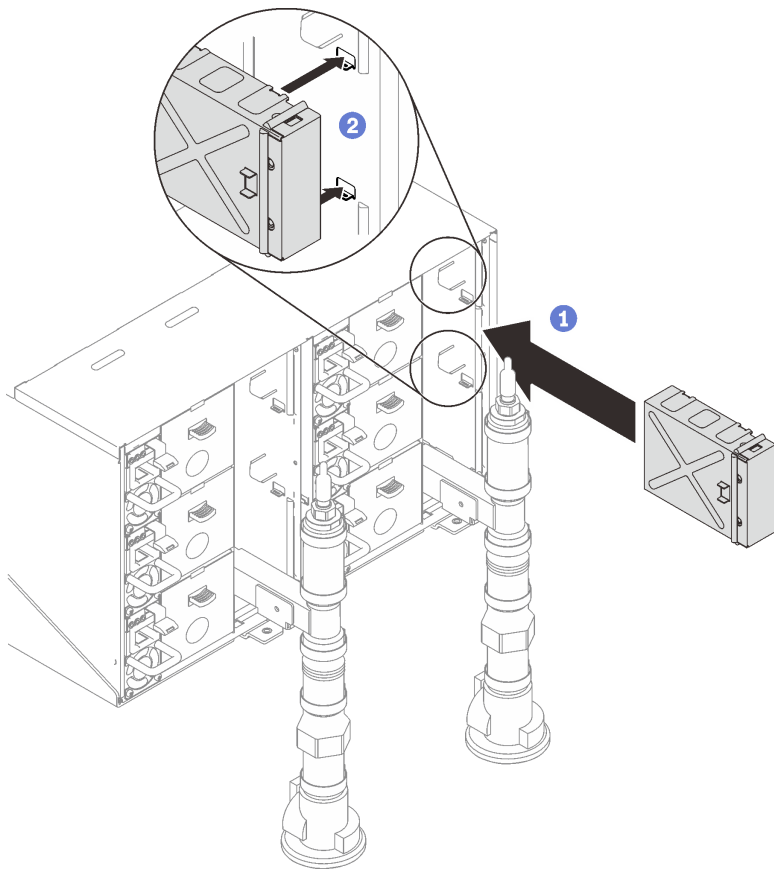


Figure 140. Blank filler installation

7. Reinstall FPC card module support bracket and FPC card module.

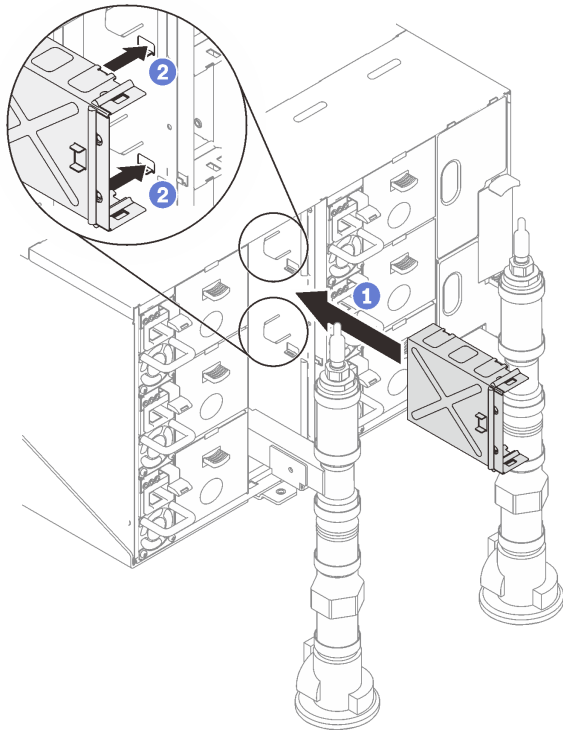


Figure 141. Support bracket installation

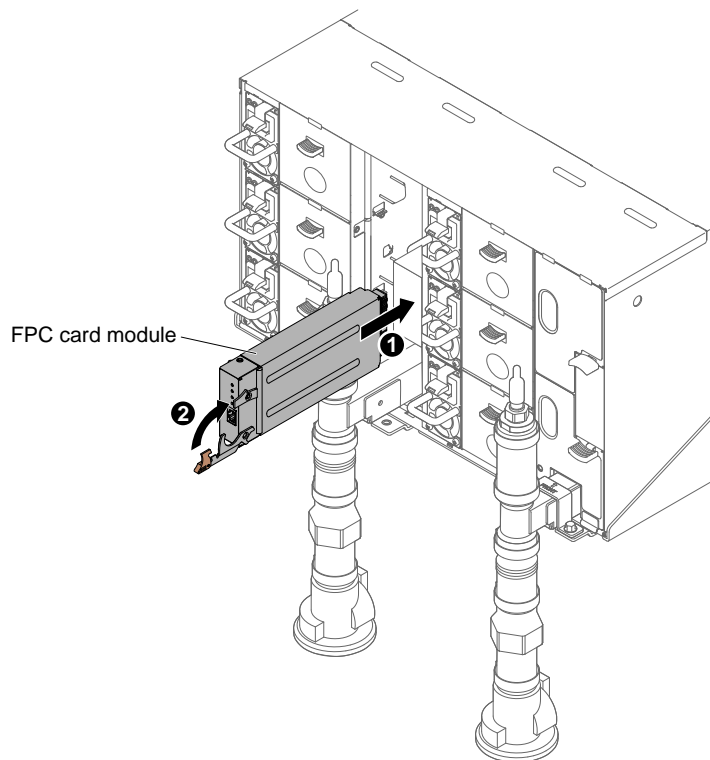


Figure 142. FPC card module installation

8. Reinstall manifold retention brackets that are retaining the manifolds (top enclosure position only).

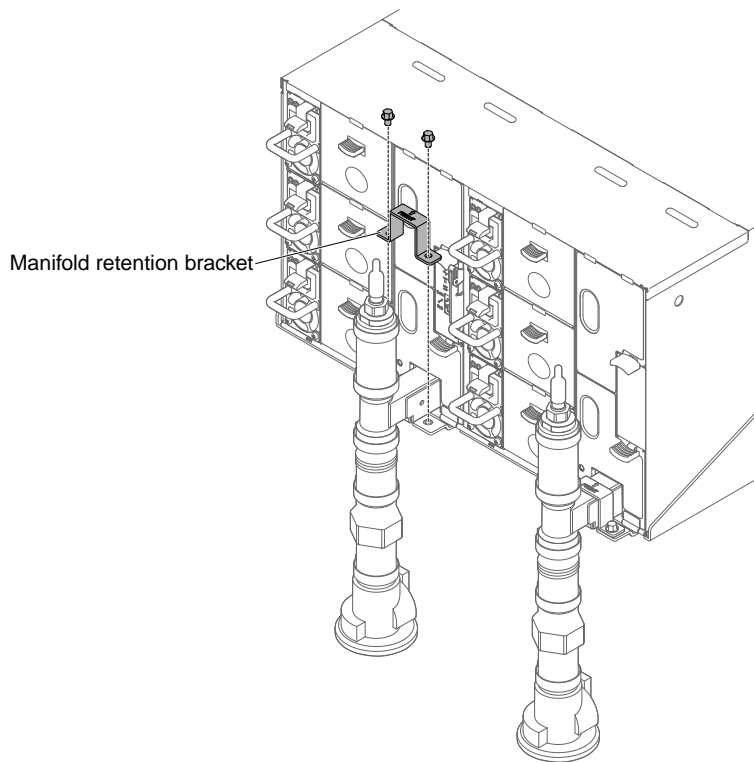


Figure 143. Retention bracket installation

9. Align the drip sensor assembly with the enclosure and slide it into place.

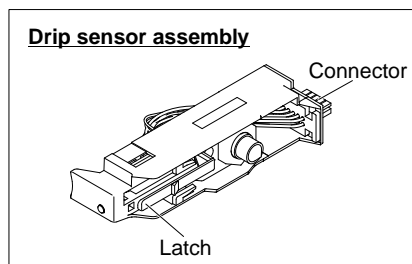
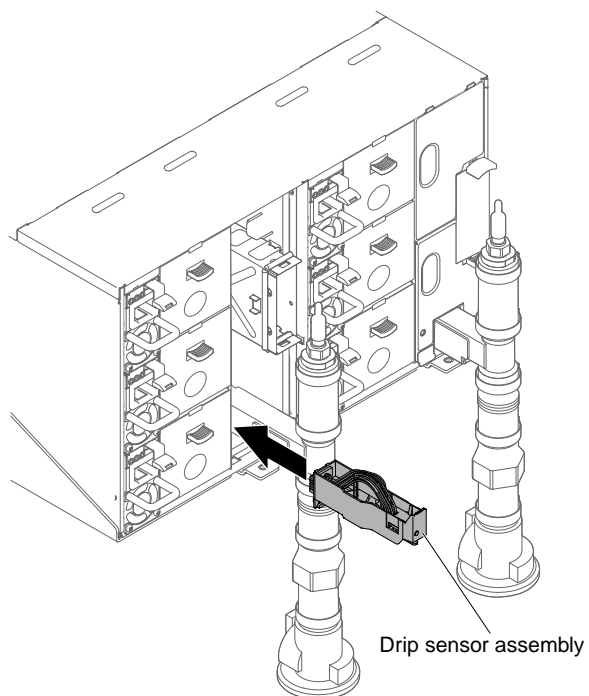


Figure 144. Drip sensor assembly installation

10. Reinstall all EMC shields.

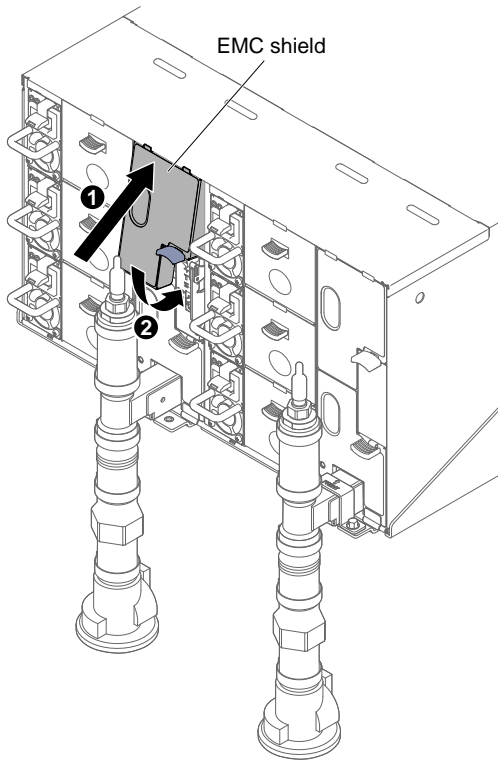


Figure 145. Upper EMC shields installation

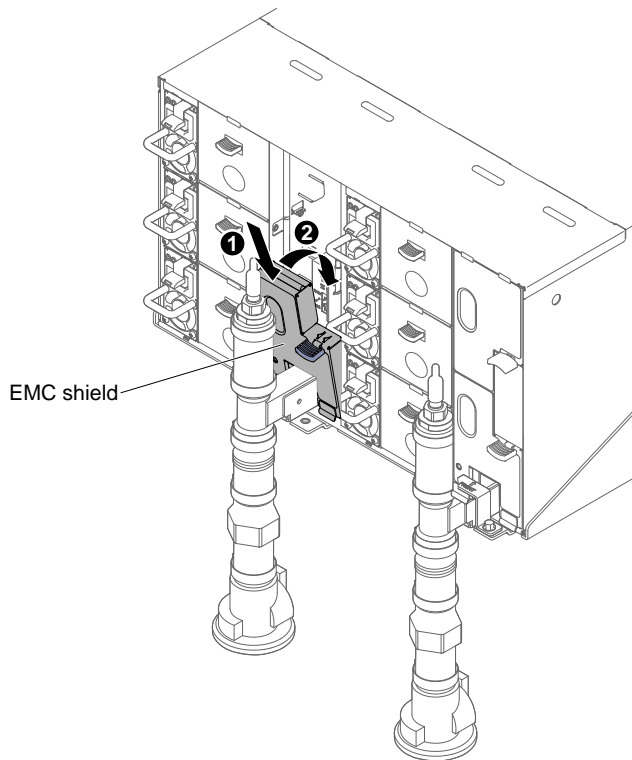


Figure 146. Lower EMC shield installation

11. Connect any cables that you disconnected from the modules in the rear of the chassis.

12. Connect the chassis to power (see n1200 Enclosure Installation and Service Guide).
13. Write down new chassis midplane serial number (for example: **Y030UN34B063**) and UUID (for example: **2E2B686CC6B311E2907C6EAE8B16A49E**).
14. Update the server firmware to the latest level (see n1200 Enclosure Installation and Service Guide).
15. Log in to the web interface (see n1200 Enclosure Installation and Service Guide).
16. Go to **System Information** section, click on the **Midplane VPD** tab.
17. Update the new chassis midplane serial number and UUID onto the fan and power controller (see n1200 Enclosure Installation and Service Guide).
18. Close the release handles on the compute nodes in order to seat the nodes in the chassis midplane connectors.
19. Restart any compute nodes that you shut down. See the documentation that comes with the compute node for detailed instructions.
20. 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 Integrated Management Module 2.1 (IMM2.1) on the server, the Integrated Management Module 2.1 (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 Integrated Management Module 2.1 (IMM2.1) error messages and suggested actions to correct the detected server problems. For more information about Integrated Management Module 2.1 (IMM2.1), see the *Integrated Management Module II User's Guide* at http://publib.boulder.ibm.com/infocenter/systemx/documentation/topic/com.lenovo.sysx.imm2.doc/printable_doc.html.

List of IMM events

This section lists all messages that can be sent from the IMM.

- **40000001-00000000 : Management Controller [arg1] Network Initialization Complete. ()**

This message is for the use case where a Management Controller network has completed initialization.

May also be shown as 4000000100000000 or 0x4000000100000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - IMM Network event

SNMP Trap ID

37

CIM Information

Prefix: IMM ID: 0001

User Response

Information only; no action is required.

- **40000002-00000000 : Certificate Authority [arg1] has detected a [arg2] Certificate Error. ()**

This message is for the use case when there is an error with an SSL Server, SSL Client, or SSL Trusted CA Certificate.

May also be shown as 4000000200000000 or 0x4000000200000000

Severity

Error

Serviceable

No

Automatically notify support

No

Alert Category

System - SSL certification

SNMP Trap ID

22

CIM Information

Prefix: IMM ID: 0002

User Response

Make sure that the certificate that you are importing is correct and properly generated.

- **40000003-00000000 : Ethernet Data Rate modified from [arg1] to [arg2] by user [arg3]. ()**

This message is for the use case where a user modifies the Ethernet Port data rate.

May also be shown as 4000000300000000 or 0x4000000300000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0003

User Response

Information only; no action is required.

- **40000004-00000000 : Ethernet Duplex setting modified from [arg1] to [arg2] by user [arg3]. ()**

This message is for the use case where A user modifies the Ethernet Port duplex setting.

May also be shown as 4000000400000000 or 0x4000000400000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information**

Prefix: IMM ID: 0004

User Response

Information only; no action is required.

- **40000005-00000000 : Ethernet MTU setting modified from [arg1] to [arg2] by user [arg3]. ()**

This message is for the use case where a user modifies the Ethernet Port MTU setting.

May also be shown as 4000000500000000 or 0x4000000500000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information**

Prefix: IMM ID: 0005

User Response

Information only; no action is required.

- **40000006-00000000 : Ethernet locally administered MAC address modified from [arg1] to [arg2] by user [arg3]. ()**

This message is for the use case where a user modifies the Ethernet Port MAC address setting.

May also be shown as 4000000600000000 or 0x4000000600000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information**

Prefix: IMM ID: 0006

User Response

Information only; no action is required.

- **40000007-00000000 : Ethernet interface [arg1] by user [arg2]. ()**

This message is for the use case where a user enables or disabled the ethernet interface.

May also be shown as 4000000700000000 or 0x4000000700000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0007

User Response

Information only; no action is required.

- **40000008-00000000 : Hostname set to [arg1] by user [arg2]. ()**

This message is for the use case where user modifies the Hostname of a Management Controller.

May also be shown as 4000000800000000 or 0x4000000800000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - IMM Network event

SNMP Trap ID

37

CIM Information

Prefix: IMM ID: 0008

User Response

Information only; no action is required.

- **40000009-00000000 : IP address of network interface modified from [arg1] to [arg2] by user [arg3]. ()**

This message is for the use case where user modifies the IP address of a Management Controller.

May also be shown as 4000000900000000 or 0x4000000900000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - IMM Network event

SNMP Trap ID

37

CIM Information

Prefix: IMM ID: 0009

User Response

Information only; no action is required.

- **4000000a-00000000 : IP subnet mask of network interface modified from [arg1] to [arg2] by user [arg3]. ()**

This message is for the use case where a user modifies the IP subnet mask of a Management Controller.

May also be shown as 4000000a00000000 or 0x4000000a00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0010

User Response

Information only; no action is required.

- **4000000b-00000000 : IP address of default gateway modified from [arg1] to [arg2] by user [arg3]. ()**

This message is for the use case where a user modifies the default gateway IP address of a Management Controller.

May also be shown as 4000000b00000000 or 0x4000000b00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0011

User Response

Information only; no action is required.

- **4000000c-00000000 : OS Watchdog response [arg1] by [arg2] . ()**

This message is for the use case where an OS Watchdog has been enabled or disabled by a user.

May also be shown as 4000000c00000000 or 0x4000000c00000000

Severity

Warning

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0012

User Response

Information only; no action is required.

- **4000000d-00000000 : DHCP[[arg1]] failure, no IP address assigned. ()**

This message is for the use case where a DHCP server fails to assign an IP address to a Management Controller.

May also be shown as 4000000d00000000 or 0x4000000d00000000

Severity

Warning

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0013

User Response

Complete the following steps until the problem is solved:

1. Make sure that the IMM network cable is connected.
2. Make sure that there is a DHCP server on the network that can assign an IP address to the IMM.

- **4000000e-00000000 : Remote Login Successful. Login ID: [arg1] from [arg2] at IP address [arg3]. ()**

This message is for the use case where a user successfully logs in to a Management Controller.

May also be shown as 4000000e00000000 or 0x4000000e00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Remote Login

SNMP Trap ID

30

CIM Information

Prefix: IMM ID: 0014

User Response

Information only; no action is required.

- **4000000f-00000000 : Attempting to [arg1] server [arg2] by user [arg3]. ()**

This message is for the use case where a user is using the Management Controller to perform a power function on the system.

May also be shown as 4000000f00000000 or 0x4000000f00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0015

User Response

Information only; no action is required.

- **40000010-00000000 : Security: Userid: [arg1] had [arg2] login failures from WEB client at IP address [arg3]. ()**

This message is for the use case where a user has failed to log in to a Management Controller from a web browser.

May also be shown as 4000001000000000 or 0x4000001000000000

Severity

Warning

Serviceable

No

Automatically notify support

No

Alert Category

System - Remote Login

SNMP Trap ID

30

CIM Information

Prefix: IMM ID: 0016

User Response

Complete the following steps until the problem is solved:

1. Make sure that the correct login ID and password are being used.
2. Have the system administrator reset the login ID or password.

- **40000011-00000000 : Security: Login ID: [arg1] had [arg2] login failures from CLI at [arg3]. ()**

This message is for the use case where a user has failed to log in to a Management Controller from the Legacy CLI.

May also be shown as 4000001100000000 or 0x4000001100000000

Severity

Warning

Serviceable

No

Automatically notify support

No

Alert Category

System - Remote Login

SNMP Trap ID

30

CIM Information

Prefix: IMM ID: 0017

User Response

Complete the following steps until the problem is solved:

1. Make sure that the correct login ID and password are being used.
2. Have the system administrator reset the login ID or password.

- **40000012-00000000 : Remote access attempt failed. Invalid userid or password received. Userid is [arg1] from WEB browser at IP address [arg2]. ()**

This message is for the use case where a remote user has failed to establish a remote control session from a Web browser session.

May also be shown as 4000001200000000 or 0x4000001200000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Remote Login

SNMP Trap ID

30

CIM Information

Prefix: IMM ID: 0018

User Response

Make sure that the correct login ID and password are being used.

- **4000013-00000000 : Remote access attempt failed. Invalid userid or password received. Userid is [arg1] from TELNET client at IP address [arg2]. ()**

This message is for the use case where a user has failed to log in to a Management Controller from a telnet session.

May also be shown as 4000001300000000 or 0x4000001300000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Remote Login

SNMP Trap ID

30

CIM Information

Prefix: IMM ID: 0019

User Response

Make sure that the correct login ID and password are being used.

- **4000014-00000000 : The [arg1] on system [arg2] cleared by user [arg3]. ()**

This message is for the use case where a Management Controller Event Log on a system is cleared by a user.

May also be shown as 4000001400000000 or 0x4000001400000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0020

User Response

Information only; no action is required.

- **40000015-00000000 : Management Controller [arg1] reset was initiated by user [arg2]. ()**

This message is for the use case where a Management Controller reset is initiated by a user.

May also be shown as 4000001500000000 or 0x4000001500000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0021

User Response

Information only; no action is required.

- **40000016-00000000 : ENET[[arg1]] DHCP-HSTN=[arg2], DN=[arg3], IP@[arg4], SN=[arg5], GW@[arg6], DNS1@[arg7] . ()**

This message is for the use case where a Management Controller IP address and configuration has been assigned by the DHCP server.

May also be shown as 4000001600000000 or 0x4000001600000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0022

User Response

Information only; no action is required.

- **40000017-00000000 : ENET[[arg1]] IP-Cfg:HstName=[arg2], IP@[arg3] ,NetMsk=[arg4], GW@[arg5] . ()**

This message is for the use case where a Management Controller IP address and configuration has been assigned statically using user data.

May also be shown as 4000001700000000 or 0x4000001700000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0023

User Response

Information only; no action is required.

- **40000018-00000000 : LAN: Ethernet[[arg1]] interface is no longer active. ()**

This message is for the use case where a Management Controller ethernet interface is no longer active.

May also be shown as 4000001800000000 or 0x4000001800000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0024

User Response

Information only; no action is required.

- **40000019-00000000 : LAN: Ethernet[[arg1]] interface is now active. ()**

This message is for the use case where a Management Controller ethernet interface is now active.

May also be shown as 4000001900000000 or 0x4000001900000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0025

User Response

Information only; no action is required.

- **4000001a-00000000 : DHCP setting changed to [arg1] by user [arg2]. ()**

This message is for the use case where a user changes the DHCP setting.

May also be shown as 4000001a00000000 or 0x4000001a00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0026

User Response

Information only; no action is required.

- **4000001b-00000000 : Management Controller [arg1]: Configuration restored from a file by user [arg2]. ()**

This message is for the use case where a user restores a Management Controller configuration from a file.

May also be shown as 4000001b00000000 or 0x4000001b00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0027

User Response

Information only; no action is required.

• **4000001c-00000000 : Watchdog [arg1] Screen Capture Occurred . ()**

This message is for the use case where an operating system error has occurred and the screen was captured.

May also be shown as 4000001c00000000 or 0x4000001c00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - other

SNMP Trap ID

22

CIM Information

Prefix: IMM ID: 0028

User Response

If there was no operating-system error, complete the following steps until the problem is solved:

1. Reconfigure the watchdog timer to a higher value.
2. Make sure that the IMM Ethernet-over-USB interface is enabled.
3. Reinstall the RNDIS or cdc_ether device driver for the operating system.
4. Disable the watchdog.

If there was an operating-system error, check the integrity of the installed operating system.

• **4000001d-00000000 : Watchdog [arg1] Failed to Capture Screen. ()**

This message is for the use case where an operating system error has occurred and the screen capture failed.

May also be shown as 4000001d00000000 or 0x4000001d00000000

Severity

Error

Serviceable

No

Automatically notify support

No

Alert Category

System - other

SNMP Trap ID

22

CIM Information

Prefix: IMM ID: 0029

User Response

Complete the following steps until the problem is solved:

1. Reconfigure the watchdog timer to a higher value.
2. Make sure that the IMM Ethernet over USB interface is enabled.
3. Reinstall the RNDIS or cdc_ether device driver for the operating system.
4. Disable the watchdog. Check the integrity of the installed operating system.
5. Update the IMM firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.

- **4000001e-00000000 : Running the backup Management Controller [arg1] main application. ()**

This message is for the use case where a Management Controller has resorted to running the backup main application.

May also be shown as 4000001e00000000 or 0x4000001e00000000

Severity

Warning

Serviceable

No

Automatically notify support

No

Alert Category

System - other

SNMP Trap ID

22

CIM Information

Prefix: IMM ID: 0030

User Response

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

- **4000001f-00000000 : Please ensure that the Management Controller [arg1] is flashed with the correct firmware. The Management Controller is unable to match its firmware to the server. ()**

This message is for the use case where a Management Controller firmware version does not match the server.

May also be shown as 4000001f00000000 or 0x4000001f00000000

Severity

Error

Serviceable

No

Automatically notify support

No

Alert Category

System - other

SNMP Trap ID

22

CIM Information

Prefix: IMM ID: 0031

User Response

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

- **40000020-00000000 : Management Controller [arg1] Reset was caused by restoring default values. ()**

This message is for the use case where a Management Controller has been reset due to a user restoring the configuration to default values.

May also be shown as 4000002000000000 or 0x4000002000000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0032

User Response

Information only; no action is required.

- **40000021-00000000 : Management Controller [arg1] clock has been set from NTP server [arg2]. ()**

This message is for the use case where a Management Controller clock has been set from the Network Time Protocol server.

May also be shown as 4000002100000000 or 0x4000002100000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information**

Prefix: IMM ID: 0033

User Response

Information only; no action is required.

- **40000022-00000000 : SSL data in the Management Controller [arg1] configuration data is invalid. Clearing configuration data region and disabling SSL. ()**

This message is for the use case where a Management Controller has detected invalid SSL data in the configuration data and is clearing the configuration data region and disabling the SSL.

May also be shown as 4000002200000000 or 0x4000002200000000

Severity

Error

Serviceable

No

Automatically notify support

No

Alert Category

System - other

SNMP Trap ID

22

CIM Information

Prefix: IMM ID: 0034

User Response

Complete the following steps until the problem is solved:

1. Make sure that the certificate that you are importing is correct.
2. Try to import the certificate again.

- **40000023-00000000 : Flash of [arg1] from [arg2] succeeded for user [arg3] . ()**

This message is for the use case where a user has successfully flashed the firmware component (MC Main Application, MC Boot ROM, BIOS, Diagnostics, System Power Backplane, Remote Expansion Enclosure Power Backplane, Integrated System Management)

May also be shown as 4000002300000000 or 0x4000002300000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information**

Prefix: IMM ID: 0035

User Response

Information only; no action is required.

- **40000024-00000000 : Flash of [arg1] from [arg2] failed for user [arg3]. ()**

This message is for the use case where a user has not flashed the firmware component from the interface and IP address due to a failure.

May also be shown as 4000002400000000 or 0x4000002400000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - other

SNMP Trap ID

22

CIM Information

Prefix: IMM ID: 0036

User Response

Information only; no action is required.

- **40000025-00000000 : The [arg1] on system [arg2] is 75% full. ()**

This message is for the use case where a Management Controller Event Log on a system is 75% full.

May also be shown as 4000002500000000 or 0x4000002500000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Event Log 75% full

SNMP Trap ID

35

CIM Information

Prefix: IMM ID: 0037

User Response

Information only; no action is required.

- **40000026-00000000 : The [arg1] on system [arg2] is 100% full. ()**

This message is for the use case where a Management Controller Event Log on a system is 100% full.

May also be shown as 4000002600000000 or 0x4000002600000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Event Log 75% full

SNMP Trap ID

35

CIM Information

Prefix: IMM ID: 0038

User Response

To avoid losing older log entries, save the log as a text file and clear the log.

- **40000027-00000000 : Platform Watchdog Timer expired for [arg1]. ()**

This message is for the use case when an implementation has detected a Platform Watchdog Timer Expired

May also be shown as 4000002700000000 or 0x4000002700000000

Severity

Error

Serviceable

No

Automatically notify support

No

Alert Category

System - OS Timeout

SNMP Trap ID

21

CIM Information

Prefix: IMM ID: 0039

User Response

Complete the following steps until the problem is solved:

1. Reconfigure the watchdog timer to a higher value.
2. Make sure that the IMM Ethernet-over-USB interface is enabled.
3. Reinstall the RNDIS or cdc_ether device driver for the operating system.
4. Disable the watchdog.
5. Check the integrity of the installed operating system.

- **40000028-00000000 : Management Controller Test Alert Generated by [arg1]. ()**

This message is for the use case where a user has generated a Test Alert.

May also be shown as 4000002800000000 or 0x4000002800000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - other

SNMP Trap ID

22

CIM Information

Prefix: IMM ID: 0040

User Response

Information only; no action is required.

- **40000029-00000000 : Security: Userid: [arg1] had [arg2] login failures from an SSH client at IP address [arg3]. ()**

This message is for the use case where a user has failed to log in to a Management Controller from SSH.

May also be shown as 4000002900000000 or 0x4000002900000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Remote Login

SNMP Trap ID

30

CIM Information

Prefix: IMM ID: 0041

User Response

Complete the following steps until the problem is solved:

1. Make sure that the correct login ID and password are being used.
2. Have the system administrator reset the login ID or password.

- **4000002a-00000000 : [arg1] firmware mismatch internal to system [arg2]. Please attempt to flash the [arg3] firmware. ()**

This message is for the use case where a specific type of firmware mismatch has been detected.

May also be shown as 4000002a00000000 or 0x4000002a00000000

Severity

Error

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

22

CIM Information

Prefix: IMM ID: 0042

User Response

Reflash the IMM firmware to the latest version.

- **4000002b-00000000 : Domain name set to [arg1]. ()**

Domain name set by user

May also be shown as 4000002b00000000 or 0x4000002b00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information**

Prefix: IMM ID: 0043

User Response

Information only; no action is required.

- **4000002c-00000000 : Domain Source changed to [arg1] by user [arg2]. ()**

Domain source changed by user

May also be shown as 4000002c00000000 or 0x4000002c00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0044

User Response

Information only; no action is required.

- **4000002d-00000000 : DDNS setting changed to [arg1] by user [arg2]. ()**

DDNS setting changed by user

May also be shown as 4000002d00000000 or 0x4000002d00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0045

User Response

Information only; no action is required.

- **4000002e-00000000 : DDNS registration successful. The domain name is [arg1]. ()**

DDNS registration and values

May also be shown as 4000002e00000000 or 0x4000002e00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0046

User Response

Information only; no action is required.

- **4000002f-00000000 : IPv6 enabled by user [arg1] . ()**

IPv6 protocol is enabled by user

May also be shown as 4000002f00000000 or 0x4000002f00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0047

User Response

Information only; no action is required.

- **40000030-00000000 : IPv6 disabled by user [arg1] . ()**

IPv6 protocol is disabled by user

May also be shown as 4000003000000000 or 0x4000003000000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0048

User Response

Information only; no action is required.

- **40000031-00000000 : IPv6 static IP configuration enabled by user [arg1]. ()**

IPv6 static address assignment method is enabled by user

May also be shown as 4000003100000000 or 0x4000003100000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0049

User Response

Information only; no action is required.

- **40000032-00000000 : IPv6 DHCP enabled by user [arg1]. ()**

IPv6 DHCP assignment method is enabled by user

May also be shown as 4000003200000000 or 0x4000003200000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0050

User Response

Information only; no action is required.

- **40000033-00000000 : IPv6 stateless auto-configuration enabled by user [arg1]. ()**

IPv6 statless auto-assignment method is enabled by user

May also be shown as 4000003300000000 or 0x4000003300000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0051

User Response

Information only; no action is required.

- **40000034-00000000 : IPv6 static IP configuration disabled by user [arg1]. ()**

IPv6 static assignment method is disabled by user

May also be shown as 4000003400000000 or 0x4000003400000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information**

Prefix: IMM ID: 0052

User Response

Information only; no action is required.

- **40000035-00000000 : IPv6 DHCP disabled by user [arg1]. ()**

IPv6 DHCP assignment method is disabled by user

May also be shown as 4000003500000000 or 0x4000003500000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information**

Prefix: IMM ID: 0053

User Response

Information only; no action is required.

- **40000036-00000000 : IPv6 stateless auto-configuration disabled by user [arg1]. ()**

IPv6 statless auto-assignment method is disabled by user

May also be shown as 4000003600000000 or 0x4000003600000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0054

User Response

Information only; no action is required.

- **40000037-00000000 : ENET[[arg1]] IPv6-LinkLocal:HstName=[arg2], IP@[arg3] ,Pref=[arg4] . ()**

IPv6 Link Local address is active

May also be shown as 4000003700000000 or 0x4000003700000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0055

User Response

Information only; no action is required.

- **40000038-00000000 : ENET[[arg1]] IPv6-Static:HstName=[arg2], IP@[arg3] ,Pref=[arg4], GW@[arg5] . ()**

IPv6 Static address is active

May also be shown as 4000003800000000 or 0x4000003800000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0056

User Response

Information only; no action is required.

- **40000039-00000000 : ENET[[arg1]] DHCPv6-HSTN=[arg2], DN=[arg3], IP@[arg4], Pref=[arg5]. ()**

IPv6 DHCP-assigned address is active

May also be shown as 4000003900000000 or 0x4000003900000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0057

User Response

Information only; no action is required.

- **4000003a-00000000 : IPv6 static address of network interface modified from [arg1] to [arg2] by user [arg3]. ()**

A user modifies the IPv6 static address of a Management Controller

May also be shown as 4000003a00000000 or 0x4000003a00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0058

User Response

Information only; no action is required.

- **4000003b-00000000 : DHCPv6 failure, no IP address assigned. ()**

S DHCP6 server fails to assign an IP address to a Management Controller.

May also be shown as 4000003b00000000 or 0x4000003b00000000

Severity

Warning

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0059

User Response

Complete the following steps until the problem is solved:

1. Make sure that the IMM network cable is connected.
2. Make sure that there is a DHCPv6 server on the network that can assign an IP address to the IMM.

- **4000003c-00000000 : Platform Watchdog Timer expired for [arg1]. ()**

An implementation has detected an OS Loader Watchdog Timer Expired

May also be shown as 4000003c00000000 or 0x4000003c00000000

Severity

Error

Serviceable

No

Automatically notify support

No

Alert Category

System - Loader timeout

SNMP Trap ID

26

CIM Information

Prefix: IMM ID: 0060

User Response

1. Reconfigure the watchdog timer to a higher value.
2. Make sure that the IMM Ethernet over USB interface is enabled.
3. Reinstall the RNDIS or cdc_ether device driver for the operating system.
4. Disable the watchdog.
5. Check the integrity of the installed operating system.

- **4000003d-00000000 : Telnet port number changed from [arg1] to [arg2] by user [arg3]. ()**

A user has modified the telnet port number

May also be shown as 4000003d00000000 or 0x4000003d00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0061

User Response

Information only; no action is required.

- **4000003e-00000000 : SSH port number changed from [arg1] to [arg2] by user [arg3]. ()**

A user has modified the SSH port number

May also be shown as 4000003e00000000 or 0x4000003e00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0062

User Response

Information only; no action is required.

- **4000003f-00000000 : Web-HTTP port number changed from [arg1] to [arg2] by user [arg3]. ()**

A user has modified the Web HTTP port number

May also be shown as 4000003f00000000 or 0x4000003f00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0063

User Response

Information only; no action is required.

- **40000040-00000000 : Web-HTTPS port number changed from [arg1] to [arg2] by user [arg3]. ()**

A user has modified the Web HTTPS port number

May also be shown as 4000004000000000 or 0x4000004000000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0064

User Response

Information only; no action is required.

- **40000041-00000000 : CIM/XML HTTP port number changed from [arg1] to [arg2] by user [arg3]. ()**

A user has modified the CIM HTTP port number

May also be shown as 4000004100000000 or 0x4000004100000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0065

User Response

Information only; no action is required.

- **40000042-00000000 : CIM/XML HTTPS port number changed from [arg1] to [arg2] by user [arg3]. ()**

A user has modified the CIM HTTPS port number

May also be shown as 4000004200000000 or 0x4000004200000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information**

Prefix: IMM ID: 0066

User Response

Information only; no action is required.

- **40000043-00000000 : SNMP Agent port number changed from [arg1] to [arg2] by user [arg3]. ()**

A user has modified the SNMP Agent port number

May also be shown as 4000004300000000 or 0x4000004300000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information**

Prefix: IMM ID: 0067

User Response

Information only; no action is required.

- **40000044-00000000 : SNMP Traps port number changed from [arg1] to [arg2] by user [arg3]. ()**

A user has modified the SNMP Traps port number

May also be shown as 4000004400000000 or 0x4000004400000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0068

User Response

Information only; no action is required.

- **40000045-00000000 : Syslog port number changed from [arg1] to [arg2] by user [arg3]. ()**

A user has modified the Syslog receiver port number

May also be shown as 4000004500000000 or 0x4000004500000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0069

User Response

Information only; no action is required.

- **40000046-00000000 : Remote Presence port number changed from [arg1] to [arg2] by user [arg3]. ()**

A user has modified the Remote Presence port number

May also be shown as 4000004600000000 or 0x4000004600000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information****Prefix: IMM ID:** 0070**User Response**

Information only; no action is required.

- **40000047-00000000 : LED [arg1] state changed to [arg2] by [arg3]. ()**

A user has modified the state of an LED

May also be shown as 4000004700000000 or 0x4000004700000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information****Prefix: IMM ID:** 0071**User Response**

Information only; no action is required.

- **40000048-00000000 : Inventory data changed for device [arg1], new device data hash=[arg2], new master data hash=[arg3] . ()**

Something has caused the physical inventory to change

May also be shown as 4000004800000000 or 0x4000004800000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information****Prefix: IMM ID:** 0072**User Response**

Information only; no action is required.

- **40000049-00000000 : SNMP [arg1] enabled by user [arg2] . ()**

A user enabled SNMPv1 or SNMPv3 or Traps

May also be shown as 4000004900000000 or 0x4000004900000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0073

User Response

Information only; no action is required.

- **4000004a-00000000 : SNMP [arg1] disabled by user [arg2] . ()**

A user disabled SNMPv1 or SNMPv3 or Traps

May also be shown as 4000004a00000000 or 0x4000004a00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0074

User Response

Information only; no action is required.

- **4000004b-00000000 : SNMPv1 [arg1] set by user [arg2]: Name=[arg3], AccessType=[arg4], Address=[arg5], . ()**

A user changed the SNMP community string

May also be shown as 4000004b00000000 or 0x4000004b00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0075

User Response

Information only; no action is required.

- **4000004c-00000000 : LDAP Server configuration set by user [arg1]: SelectionMethod=[arg2], DomainName=[arg3], Server1=[arg4], Server2=[arg5], Server3=[arg6], Server4=[arg7]. ()**

A user changed the LDAP server configuration

May also be shown as 4000004c00000000 or 0x4000004c00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0076

User Response

Information only; no action is required.

- **4000004d-00000000 : LDAP set by user [arg1]: RootDN=[arg2], UIDSearchAttribute=[arg3], BindingMethod=[arg4], EnhancedRBS=[arg5], TargetName=[arg6], GroupFilter=[arg7], GroupAttribute=[arg8], LoginAttribute=[arg9]. ()**

A user configured an LDAP Miscellaneous setting

May also be shown as 4000004d00000000 or 0x4000004d00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0077

User Response

Information only; no action is required.

- **4000004e-00000000 : Serial Redirection set by user [arg1]: Mode=[arg2], BaudRate=[arg3], StopBits=[arg4], Parity=[arg5], SessionTerminateSequence=[arg6]. ()**

A user configured the Serial Port mode

May also be shown as 4000004e00000000 or 0x4000004e00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0078

User Response

Information only; no action is required.

- **4000004f-00000000 : Date and Time set by user [arg1]: Date=[arg2], Time=[arg3], DST Auto-adjust=[arg4], Timezone=[arg5]. ()**

A user configured the Date and Time settings

May also be shown as 4000004f00000000 or 0x4000004f00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0079

User Response

Information only; no action is required.

- **40000050-00000000 : Server General Settings set by user [arg1]: Name=[arg2], Contact=[arg3], Location=[arg4], Room=[arg5], RackID=[arg6], Rack U-position=[arg7]. ()**

A user configured the Location setting

May also be shown as 4000005000000000 or 0x4000005000000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0080

User Response

Information only; no action is required.

- **40000051-00000000 : Server Power Off Delay set to [arg1] by user [arg2]. ()**

A user configured the Server Power Off Delay

May also be shown as 4000005100000000 or 0x4000005100000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0081

User Response

Information only; no action is required.

- **40000052-00000000 : Server [arg1] scheduled for [arg2] at [arg3] by user [arg4]. ()**

A user configured a Server Power action at a specific time

May also be shown as 4000005200000000 or 0x4000005200000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0082

User Response

Information only; no action is required.

- **40000053-00000000 : Server [arg1] scheduled for every [arg2] at [arg3] by user [arg4]. ()**

A user configured a recurring Server Power Action

May also be shown as 4000005300000000 or 0x4000005300000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0083

User Response

Information only; no action is required.

- **40000054-00000000 : Server [arg1] [arg2] cleared by user [arg3]. ()**

A user cleared a Server Power Action.

May also be shown as 4000005400000000 or 0x4000005400000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0084

User Response

Information only; no action is required.

- **40000055-00000000 : Synchronize time setting by user [arg1]: Mode=[arg2], NTPServerHost1=[arg3]:[arg4],NTPServerHost2=[arg5]:[arg6],NTPServerHost3=[arg7]:[arg8],NTPServerHost4=[arg9]:[arg10],NTPUpdateFrequency=[arg11]. ()**

A user configured the Date and Time synchronize settings

May also be shown as 4000005500000000 or 0x4000005500000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information**

Prefix: IMM ID: 0085

User Response

Information only; no action is required.

- **40000056-00000000 : SMTP Server set by user [arg1] to [arg2]:[arg3]. ()**

A user configured the SMTP server

May also be shown as 4000005600000000 or 0x4000005600000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information**

Prefix: IMM ID: 0086

User Response

Information only; no action is required.

- **40000057-00000000 : Telnet [arg1] by user [arg2]. ()**

A user enables or disables Telnet services

May also be shown as 4000005700000000 or 0x4000005700000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0087

User Response

Information only; no action is required.

- **40000058-00000000 : DNS servers set by user [arg1]: UseAdditionalServers=[arg2], PreferredDNStype=[arg3], IPv4Server1=[arg4], IPv4Server2=[arg5], IPv4Server3=[arg6], IPv6Server1=[arg7], IPv6Server2=[arg8], IPv6Server3=[arg9]. ()**

A user configures the DNS servers

May also be shown as 4000005800000000 or 0x4000005800000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0088

User Response

Information only; no action is required.

- **40000059-00000000 : LAN over USB [arg1] by user [arg2]. ()**

A user configured USB-LAN

May also be shown as 4000005900000000 or 0x4000005900000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0089

User Response

Information only; no action is required.

- **4000005a-00000000 : LAN over USB Port Forwarding set by user [arg1]: ExternalPort=[arg2], USB-LAN port=[arg3]. ()**

A user configured USB-LAN port forwarding

May also be shown as 4000005a00000000 or 0x4000005a00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0090

User Response

Information only; no action is required.

- **4000005b-00000000 : Secure Web services (HTTPS) [arg1] by user [arg2]. ()**

A user enables or disables Secure web services

May also be shown as 4000005b00000000 or 0x4000005b00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0091

User Response

Information only; no action is required.

- **4000005c-00000000 : Secure CIM/XML(HTTPS) [arg1] by user [arg2]. ()**

A user enables or disables Secure CIM/XML services

May also be shown as 4000005c00000000 or 0x4000005c00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information**

Prefix: IMM ID: 0092

User Response

Information only; no action is required.

- **4000005d-00000000 : Secure LDAP [arg1] by user [arg2]. ()**

A user enables or disables Secure LDAP services

May also be shown as 4000005d00000000 or 0x4000005d00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information**

Prefix: IMM ID: 0093

User Response

Information only; no action is required.

- **4000005e-00000000 : SSH [arg1] by user [arg2]. ()**

A user enables or disables SSH services

May also be shown as 4000005e00000000 or 0x4000005e00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information**

Prefix: IMM ID: 0094

User Response

Information only; no action is required.

- **4000005f-00000000 : Server timeouts set by user [arg1]: EnableOSWatchdog=[arg2], OSWatchdogTimeout=[arg3], EnableLoaderWatchdog=[arg4], LoaderTimeout=[arg5]. ()**

A user configures Server Timeouts

May also be shown as 4000005f00000000 or 0x4000005f00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information**

Prefix: IMM ID: 0095

User Response

Information only; no action is required.

- **40000060-00000000 : License key for [arg1] added by user [arg2]. ()**

A user installs License Key

May also be shown as 4000006000000000 or 0x4000006000000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0096

User Response

Information only; no action is required.

- **40000061-00000000 : License key for [arg1] removed by user [arg2]. ()**

A user removes a License Key

May also be shown as 4000006100000000 or 0x4000006100000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0097

User Response

Information only; no action is required.

- **40000062-00000000 : Global Login General Settings set by user [arg1]: AuthenticationMethod=[arg2], LockoutPeriod=[arg3], SessionTimeout=[arg4]. ()**

A user changes the Global Login General Settings

May also be shown as 4000006200000000 or 0x4000006200000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0098

User Response

Information only; no action is required.

- **40000063-00000000 : Global Login Account Security set by user [arg1]: PasswordRequired=[arg2], PasswordExpirationPeriod=[arg3], MinimumPasswordReuseCycle=[arg4], MinimumPasswordLength=[arg5], MinimumPasswordChangeInterval=[arg6], MaxmumLoginFailures=[arg7], LockoutAfterMaxFailures=[arg8]. ()**

A user changes the Global Login Account Security Settings to Legacy

May also be shown as 4000006300000000 or 0x4000006300000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0099

User Response

Information only; no action is required.

- **40000064-00000000 : User [arg1] created. ()**

A user account was created

May also be shown as 4000006400000000 or 0x4000006400000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0100

User Response

Information only; no action is required.

- **40000065-00000000 : User [arg1] removed. ()**

A user account was deleted

May also be shown as 4000006500000000 or 0x4000006500000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0101

User Response

Information only; no action is required.

• **40000066-00000000 : User [arg1] password modified. ()**

A user account was changed

May also be shown as 4000006600000000 or 0x4000006600000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0102

User Response

Information only; no action is required.

• **40000067-00000000 : User [arg1] role set to [arg2]. ()**

A user account role assigned

May also be shown as 4000006700000000 or 0x4000006700000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information****Prefix: IMM ID:** 0103**User Response**

Information only; no action is required.

- **40000068-00000000 : User [arg1] custom privileges set: [arg2]. ()**

User account privileges assigned

May also be shown as 4000006800000000 or 0x4000006800000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information****Prefix: IMM ID:** 0104**User Response**

Information only; no action is required.

- **40000069-00000000 : User [arg1] for SNMPv3 set: AuthenticationProtocol=[arg2], PrivacyProtocol=[arg3], AccessType=[arg4], HostforTraps=[arg5]. ()**

User account SNMPv3 settings changed

May also be shown as 4000006900000000 or 0x4000006900000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information****Prefix: IMM ID:** 0105**User Response**

Information only; no action is required.

- **4000006a-00000000 : SSH Client key added for user [arg1]. ()**

User locally defined an SSH Client key

May also be shown as 4000006a00000000 or 0x4000006a00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0106

User Response

Information only; no action is required.

- **4000006b-00000000 : SSH Client key imported for user [arg1] from [arg2]. ()**

User imported an SSH Client key

May also be shown as 4000006b00000000 or 0x4000006b00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0107

User Response

Information only; no action is required.

- **4000006c-00000000 : SSH Client key removed from user [arg1]. ()**

User removed an SSH Client key

May also be shown as 4000006c00000000 or 0x4000006c00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0108

User Response

Information only; no action is required.

- **4000006d-00000000 : Management Controller [arg1]: Configuration saved to a file by user [arg2]. ()**

A user saves a Management Controller configuration to a file.

May also be shown as 4000006d00000000 or 0x4000006d00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0109

User Response

Information only; no action is required.

- **4000006e-00000000 : Alert Configuration Global Event Notification set by user [arg1]: RetryLimit=[arg2], RetryInterval=[arg3], EntryInterval=[arg4]. ()**

A user changes the Global Event Notification settings.

May also be shown as 4000006e00000000 or 0x4000006e00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0110

User Response

Information only; no action is required.

- **4000006f-00000000 : Alert Recipient Number [arg1] updated: Name=[arg2], DeliveryMethod=[arg3], Address=[arg4], IncludeLog=[arg5], Enabled=[arg6], EnabledAlerts=[arg7], AllowedFilters=[arg8]. ()**

A user adds or updates an Alert Recipient

May also be shown as 4000006f00000000 or 0x4000006f00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0111

User Response

Information only; no action is required.

- **40000070-00000000 : SNMP Traps enabled by user [arg1]: EnabledAlerts=[arg2], AllowedFilters=[arg3]. ()**

A user enabled the SNMP Traps configuration

May also be shown as 4000007000000000 or 0x4000007000000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0112

User Response

Information only; no action is required.

- **40000071-00000000 : The power cap value changed from [arg1] watts to [arg2] watts by user [arg3]. ()**

Power Cap values changed by user

May also be shown as 4000007100000000 or 0x4000007100000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0113

User Response

Information only; no action is required.

- **40000072-00000000 : The minimum power cap value changed from [arg1] watts to [arg2] watts. ()**

Minimum Power Cap value changed

May also be shown as 4000007200000000 or 0x4000007200000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0114

User Response

Information only; no action is required.

- **40000073-00000000 : The maximum power cap value changed from [arg1] watts to [arg2] watts. ()**

Maximum Power Cap value changed

May also be shown as 4000007300000000 or 0x4000007300000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information**

Prefix: IMM ID: 0115

User Response

Information only; no action is required.

- **40000074-00000000 : The soft minimum power cap value changed from [arg1] watts to [arg2] watts. ()**

Soft Minimum Power Cap value changed

May also be shown as 4000007400000000 or 0x4000007400000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information**

Prefix: IMM ID: 0116

User Response

Information only; no action is required.

- **40000075-00000000 : The measured power value exceeded the power cap value. ()**

Power exceeded cap

May also be shown as 4000007500000000 or 0x4000007500000000

Severity

Warning

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Power

SNMP Trap ID

164

CIM Information

Prefix: IMM ID: 0117

User Response

Information only; no action is required.

- **40000076-00000000 : The new minimum power cap value exceeded the power cap value. ()**

Minimum Power Cap exceeds Power Cap

May also be shown as 4000007600000000 or 0x4000007600000000

Severity

Warning

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Power

SNMP Trap ID

164

CIM Information

Prefix: IMM ID: 0118

User Response

Information only; no action is required.

- **40000077-00000000 : Power capping was activated by user [arg1]. ()**

Power capping activated by user

May also be shown as 4000007700000000 or 0x4000007700000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0119

User Response

Information only; no action is required.

- **40000078-00000000 : Power capping was deactivated by user [arg1]. ()**

Power capping deactivated by user

May also be shown as 4000007800000000 or 0x4000007800000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information**

Prefix: IMM ID: 0120

User Response

Information only; no action is required.

- **40000079-00000000 : Static Power Savings mode has been turned on by user [arg1]. ()**

Static Power Savings mode turned on by user

May also be shown as 4000007900000000 or 0x4000007900000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID**CIM Information**

Prefix: IMM ID: 0121

User Response

Information only; no action is required.

- **4000007a-00000000 : Static Power Savings mode has been turned off by user [arg1]. ()**

Static Power Savings mode turned off by user

May also be shown as 4000007a00000000 or 0x4000007a00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0122

User Response

Information only; no action is required.

- **4000007b-00000000 : Dynamic Power Savings mode has been turned on by user [arg1]. ()**

Dynamic Power Savings mode turned on by user

May also be shown as 4000007b00000000 or 0x4000007b00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0123

User Response

Information only; no action is required.

- **4000007c-00000000 : Dynamic Power Savings mode has been turned off by user [arg1]. ()**

Dynamic Power Savings mode turned off by user

May also be shown as 4000007c00000000 or 0x4000007c00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0124

User Response

Information only; no action is required.

- **4000007d-00000000 : Power cap and external throttling occurred. ()**

Power cap and external throttling occurred

May also be shown as 4000007d00000000 or 0x4000007d00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0125

User Response

Information only; no action is required.

- **4000007e-00000000 : External throttling occurred . ()**

External throttling occurred

May also be shown as 4000007e00000000 or 0x4000007e00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0126

User Response

Information only; no action is required.

- **4000007f-00000000 : Power cap throttling occurred. ()**

Power cap throttling occurred

May also be shown as 4000007f00000000 or 0x4000007f00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0127

User Response

Information only; no action is required.

- **40000080-00000000 : Remote Control session started by user [arg1] in [arg2] mode. ()**

Remote Control session started

May also be shown as 4000008000000000 or 0x4000008000000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0128

User Response

Information only; no action is required.

- **40000081-00000000 : PXE boot requested by user [arg1]. ()**

PXE boot requested

May also be shown as 4000008100000000 or 0x4000008100000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0129

User Response

Information only; no action is required.

- **40000082-00000000 : The measured power value has returned below the power cap value. ()**

Power exceeded cap recovered

May also be shown as 4000008200000000 or 0x4000008200000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Power

SNMP Trap ID

164

CIM Information

Prefix: IMM ID: 0130

User Response

Information only; no action is required.

- **40000083-00000000 : The new minimum power cap value has returned below the power cap value. ()**

Minimum Power Cap exceeds Power Cap recovered

May also be shown as 4000008300000000 or 0x4000008300000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Power

SNMP Trap ID

164

CIM Information

Prefix: IMM ID: 0131

User Response

Information only; no action is required.

- **40000084-00000000 : IMM firmware mismatch between nodes [arg1] and [arg2]. Please attempt to flash the IMM firmware to the same level on all nodes. ()**

A mismatch of IMM firmware has been detected between nodes

May also be shown as 4000008400000000 or 0x4000008400000000

Severity

Error

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

22

CIM Information**Prefix: IMM ID:** 0132**User Response**

Attempt to flash the IMM firmware to the same level on all nodes.

- **40000085-00000000 : FPGA firmware mismatch between nodes [arg1] and [arg2]. Please attempt to flash the FPGA firmware to the same level on all nodes. ()**

A mismatch of FPGA firmware has been detected between nodes

May also be shown as 4000008500000000 or 0x4000008500000000

Severity

Error

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

22

CIM Information**Prefix: IMM ID:** 0133**User Response**

Attempt to flash the FPGA firmware to the same level on all nodes.

- **40000086-00000000 : Test Call Home Generated by user [arg1]. ()**

Test Call Home generated by user.

May also be shown as 4000008600000000 or 0x4000008600000000

Severity

Info

Serviceable

No

Automatically notify support

Yes

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0134

User Response

Information only; no action is required.

- **40000087-00000000 : Manual Call Home by user [arg1]: [arg2]. ()**

Manual Call Home by user.

May also be shown as 4000008700000000 or 0x4000008700000000

Severity

Info

Serviceable

No

Automatically notify support

Yes

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0135

User Response

Lenovo Support will address the problem.

- **40000088-00000000 : Management Controller [arg1]: Configuration restoration from a file by user [arg2] completed. ()**

This message is for the use case where a user restores a Management Controller configuration from a file and it completes.

May also be shown as 4000008800000000 or 0x4000008800000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

none

SNMP Trap ID

CIM Information

Prefix: IMM ID: 0136

User Response

Information only; no action is required.

- **4000089-00000000 : Management Controller [arg1]: Configuration restoration from a file by user [arg2] failed to complete. ()**

This message is for the use case where a user restores a Management Controller configuration from a file and the restoration fails to complete.

May also be shown as 4000008900000000 or 0x4000008900000000

Severity

Error

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

22

CIM Information

Prefix: IMM ID: 0137

User Response

1. Turn off the server and disconnect it from the power source. You must disconnect the server from ac power to reset the IMM.
2. After 45 seconds, reconnect the server to the power source and turn on the server.
3. Retry the operation.

- **400008a-00000000 : Management Controller [arg1]: Configuration restoration from a file by user [arg2] failed to start. ()**

This message is for the use case where a user restores a Management Controller configuration from a file and the restoration fails to start.

May also be shown as 4000008a00000000 or 0x4000008a00000000

Severity

Error

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

22

CIM Information

Prefix: IMM ID: 0138

User Response

1. Turn off the server and disconnect it from the power source. You must disconnect the server from ac power to reset the IMM.
2. After 45 seconds, reconnect the server to the power source and turn on the server.
3. Retry the operation.

- **4000008b-00000000 : Storage [arg1] has changed. ()**

This message is for the use case where an IP address for the Storage Management has changed

May also be shown as 4000008b00000000 or 0x4000008b00000000

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - IMM Network event

SNMP Trap ID

37

CIM Information

Prefix: IMM ID: 0139

User Response

Information only; no action is required.

- **80010002-0701ffff : Numeric sensor [NumericSensorElementName] going low (lower non-critical) has asserted. (CMOS Battery)**

This message is for the use case when an implementation has detected a Lower Non-critical sensor going low has asserted.

May also be shown as 800100020701ffff or 0x800100020701ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

Warning - Voltage

SNMP Trap ID

13

CIM Information

Prefix: PLAT ID: 0476

User Response

Replace the system battery.

- **80010202-0701ffff : Numeric sensor [NumericSensorElementName] going low (lower critical) has asserted. (CMOS Battery)**

This message is for the use case when an implementation has detected a Lower Critical sensor going low has asserted.

May also be shown as 800102020701ffff or 0x800102020701ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Voltage

SNMP Trap ID

1

CIM Information

Prefix: PLAT ID: 0480

User Response

If the specified sensor is CMOS battery, replace the system battery. If the specified sensor is Planar 3.3V or Planar 5V, (trained technician only) replace the system board. If the specified sensor is Planar 12V, complete the following steps until the problem is solved:

1. Check power supply n LED.
2. Remove the failing power supply.
3. Follow actions in "Power Problems and Solving Power Problems".
4. (Trained technician only) Replace the system board. (n = power supply number)

SysBrd 12V : SysBrd 3.3V : SysBrd 5V :

- **80010701-2d01ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has asserted. (PCH Temp)**

This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

May also be shown as 800107012d01ffff or 0x800107012d01ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

Warning - Temperature

SNMP Trap ID

12

CIM Information

Prefix: PLAT ID: 0490

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 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)**

This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

May also be shown as 800107013701ffff or 0x800107013701ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

Warning - Temperature

SNMP Trap ID

12

CIM Information

Prefix: PLAT ID: 0490

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 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)**

This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

May also be shown as 800107013702ffff or 0x800107013702ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

Warning - Temperature

SNMP Trap ID

12

CIM Information

Prefix: PLAT ID: 0490

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 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)**

This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

May also be shown as 800107013703ffff or 0x800107013703ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

Warning - Temperature

SNMP Trap ID

12

CIM Information

Prefix: PLAT ID: 0490

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 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)**

This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

May also be shown as 800107013704ffff or 0x800107013704ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

Warning - Temperature

SNMP Trap ID

12

CIM Information

Prefix: PLAT ID: 0490

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 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)**

This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

May also be shown as 800107013705ffff or 0x800107013705ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

Warning - Temperature

SNMP Trap ID

12

CIM Information

Prefix: PLAT ID: 0490

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 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)**

This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

May also be shown as 800107013706ffff or 0x800107013706ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

Warning - Temperature

SNMP Trap ID

12

CIM Information

Prefix: PLAT ID: 0490

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 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)**

This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

May also be shown as 800107013707ffff or 0x800107013707ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

Warning - Temperature

SNMP Trap ID

12

CIM Information

Prefix: PLAT ID: 0490

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 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)**

This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

May also be shown as 800109012d01ffff or 0x800109012d01ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0494

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 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)**

This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

May also be shown as 800109013701ffff or 0x800109013701ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0494

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 Server Features and specifications for more information).
3. Make sure that the heat sink for microprocessor n.
4. (Trained technician only) Replace system board.

- **80010901-3702ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (PIB Ambient Temp)**

This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

May also be shown as 800109013702ffff or 0x800109013702ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0494

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 Server Features and specifications for more information).
3. Make sure that the heat sink for microprocessor n.
4. (Trained technician only) Replace system board.

- **80010901-3703ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (HDD Inlet Temp)**

This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

May also be shown as 800109013703ffff or 0x800109013703ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0494

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 Server Features and specifications for more information).
 3. Make sure that the heat sink for microprocessor n.
 4. (Trained technician only) Replace system board.
- **80010901-3704ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (PCI Riser 1 Temp)**

This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

May also be shown as 800109013704ffff or 0x800109013704ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0494

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 Server Features and specifications for more information).
3. Make sure that the heat sink for microprocessor n.
4. (Trained technician only) Replace system board.

- **80010901-3705ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (PCI Riser 2 Temp)**

This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

May also be shown as 800109013705ffff or 0x800109013705ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0494

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 Server Features and specifications for more information).
3. Make sure that the heat sink for microprocessor n.
4. (Trained technician only) Replace system board.

- **80010901-3706ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (GPU Outlet Temp)**

This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

May also be shown as 800109013706ffff or 0x800109013706ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0494

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 Server Features and specifications for more information).
3. Make sure that the heat sink for microprocessor n.
4. (Trained technician only) Replace system board.

- **80010901-3707ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (HDD Outlet Temp)**

This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

May also be shown as 800109013707ffff or 0x800109013707ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0494

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 Server Features and specifications for more information).
3. Make sure that the heat sink for microprocessor n.
4. (Trained technician only) Replace system board.

- **80010902-0701ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has asserted. (SysBrd 12V)**

This message is for the use case when an implementation has detected an Upper Critical sensor going high has asserted.

May also be shown as 800109020701ffff or 0x800109020701ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Voltage

SNMP Trap ID

1

CIM Information

Prefix: PLAT ID: 0494

User Response

If the specified sensor is Planar 3.3V or Planar 5V, (Trained technician only) replace the system board.
If the specified sensor is Planar 12V, complete the following steps until the problem is solved:

1. Check power supply n LED.
2. Remove the failing power supply.
3. (Trained technician only) Replace the system board. (n = power supply number)

SysBrd 3.3V : SysBrd 5V :

- **80010b01-2d01ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (PCH Temp)**

This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

May also be shown as 80010b012d01ffff or 0x80010b012d01ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0498

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 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)**

This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

May also be shown as 80010b013701ffff or 0x80010b013701ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0498

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 Server Features and specifications for more information).
 3. Make sure that the heat sink for microprocessor n.
 4. (Trained technician only) Replace system board.
- **80010b01-3702ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (PIB Ambient Temp)**

This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

May also be shown as 80010b013702ffff or 0x80010b013702ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0498

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 Server Features and specifications for more information).
3. Make sure that the heat sink for microprocessor n.
4. (Trained technician only) Replace system board.

- **80010b01-3703ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (HDD Inlet Temp)**

This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

May also be shown as 80010b013703ffff or 0x80010b013703ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0498

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 Server Features and specifications for more information).
3. Make sure that the heat sink for microprocessor n.
4. (Trained technician only) Replace system board.

- **80010b01-3704ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (PCI Riser 1 Temp)**

This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

May also be shown as 80010b013704ffff or 0x80010b013704ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0498

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 Server Features and specifications for more information).
3. Make sure that the heat sink for microprocessor n.
4. (Trained technician only) Replace system board.

- **80010b01-3705ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (PCI Riser 2 Temp)**

This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

May also be shown as 80010b013705ffff or 0x80010b013705ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0498

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 Server Features and specifications for more information).
3. Make sure that the heat sink for microprocessor n.
4. (Trained technician only) Replace system board.

- **80010b01-3706ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (GPU Outlet Temp)**

This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

May also be shown as 80010b013706ffff or 0x80010b013706ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0498

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 Server Features and specifications for more information).
 3. Make sure that the heat sink for microprocessor n.
 4. (Trained technician only) Replace system board.
- **80010b01-3707ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has asserted. (HDD Outlet Temp)**

This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has asserted.

May also be shown as 80010b013707ffff or 0x80010b013707ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0498

User Response

1. Make sure that the water loop is operating, the relevant water tubes 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 Server Features and specifications for more information).
 3. Make sure that the heat sink for microprocessor n.
 4. (Trained technician only) Replace system board.
- **80030006-2101ffff : Sensor [SensorElementName] has deasserted. (Sig Verify Fail)**

This message is for the use case when an implementation has detected a Sensor has deasserted.

May also be shown as 800300062101ffff or 0x800300062101ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0509

User Response

No action; information only.

- **80030012-2301ffff : Sensor [SensorElementName] has deasserted. (OS RealTime Mod)**

This message is for the use case when an implementation has detected a Sensor has deasserted.

May also be shown as 800300122301ffff or 0x800300122301ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0509

User Response

No action; information only.

- **80030021-0782ffff : Sensor [SensorElementName] has deasserted. (PCIe Dev LK Down)**

This message is for the use case when an implementation has detected a Sensor has deasserted.

May also be shown as 800300210782ffff or 0x800300210782ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0509

User Response

No action; information only.

- **8003010c-2581ffff : Sensor [SensorElementName] has asserted. (Non-Auth DIMMs)**

This message is for the use case when an implementation has detected a Sensor has asserted.

May also be shown as 8003010c2581ffff or 0x8003010c2581ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0508

User Response

1. Replace the power supply with higher rated power.
2. Reduce the total power consumption by removing newly added or unused option like drives or adapters.

- **8003010d-2b81ffff : Sensor [SensorElementName] has asserted. (FDIMM Config)**

This message is for the use case when an implementation has detected a Sensor has asserted.

May also be shown as 8003010d2b81ffff or 0x8003010d2b81ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0508

User Response

1. Replace the power supply with higher rated power.

2. Reduce the total power consumption by removing newly added or unused option like drives or adapters.

- **8003010f-2101ffff : Sensor [SensorElementName] has asserted. (IMM FW Corrupted)**

This message is for the use case when an implementation has detected a Sensor has asserted.

May also be shown as 8003010f2101ffff or 0x8003010f2101ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0508

User Response

1. Replace the power supply with higher rated power.
2. Reduce the total power consumption by removing newly added or unused option like drives or adapters.

- **80030112-0601ffff : Sensor [SensorElementName] has asserted. (SMM Mode)**

This message is for the use case when an implementation has detected a Sensor has asserted.

May also be shown as 800301120601ffff or 0x800301120601ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0508

User Response

1. Replace the power supply with higher rated power.
2. Reduce the total power consumption by removing newly added or unused option like drives or adapters.

SMM Monitor :

- **80030121-0782ffff : Sensor [SensorElementName] has asserted. (PCIe Dev LK Down)**

This message is for the use case when an implementation has detected a Sensor has asserted.

May also be shown as 800301210782ffff or 0x800301210782ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0508

User Response

1. Replace the power supply with higher rated power.
2. Reduce the total power consumption by removing newly added or unused option like drives or adapters.

- **8005010d-2b81ffff : Sensor [SensorElementName] has indicated limit exceeded. (FDIMM TempLimit)**

This message is for the use case when an implementation has detected a Sensor limit was exceeded.

May also be shown as 8005010d2b81ffff or 0x8005010d2b81ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0512

User Response

No action; information only.

- **8007010d-0b01ffff : Sensor [SensorElementName] has transitioned from normal to non-critical state. (RAID #1 Volume)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-critical from normal.

May also be shown as 8007010d0b01ffff or 0x8007010d0b01ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

Warning - Other

SNMP Trap ID

60

CIM Information

Prefix: PLAT ID: 0520

User Response

None

- **8007010d-0b07ffff : Sensor [SensorElementName] has transitioned from normal to non-critical state. (RAID #7 Volume)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-critical from normal.

May also be shown as 8007010d0b07ffff or 0x8007010d0b07ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

Warning - Other

SNMP Trap ID

60

CIM Information

Prefix: PLAT ID: 0520

User Response

None

- **8007010d-2b81ffff : Sensor [SensorElementName] has transitioned from normal to non-critical state. (FDIMM Warranty)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-critical from normal.

May also be shown as 8007010d2b81ffff or 0x8007010d2b81ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

Warning - Other

SNMP Trap ID

60

CIM Information

Prefix: PLAT ID: 0520

User Response

None

- **8007010f-2201ffff : Sensor [SensorElementName] has transitioned from normal to non-critical state. (GPT Status)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-critical from normal.

May also be shown as 8007010f2201ffff or 0x8007010f2201ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

Warning - Other

SNMP Trap ID

60

CIM Information

Prefix: PLAT ID: 0520

User Response

1. Check the Lenovo support site for service bulletins or firmware updates that apply to this GPT error.
2. Set the UEFI setting DISK GPT Recovery to Automatic.
3. Replace the corrupt disk.

- **8007010f-2582ffff : Sensor [SensorElementName] has transitioned from normal to non-critical state. (I/O Resources)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-critical from normal.

May also be shown as 8007010f2582ffff or 0x8007010f2582ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

Warning - Other

SNMP Trap ID

60

CIM Information

Prefix: PLAT ID: 0520

User Response

1. Check the Lenovo 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)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-critical from normal.

May also be shown as 800701142201ffff or 0x800701142201ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

Warning - Other

SNMP Trap ID

60

CIM Information

Prefix: PLAT ID: 0520

User Response

1. Complete the administrative tasks that require the TPM physical presence switch to be in the ON position.
 2. Restore the physical presence switch to the OFF position.
 3. Reboot the system.
 4. (Trained technician only) If the error continues, replace the planar.
- **80070128-2e01ffff : Sensor [SensorElementName] has transitioned from normal to non-critical state. (ME Recovery)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-critical from normal.

May also be shown as 800701282e01ffff or 0x800701282e01ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

Warning - Other

SNMP Trap ID

60

CIM Information

Prefix: PLAT ID: 0520

User Response

None

- **80070201-0301ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (CPU 1 OverTemp)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 800702010301ffff or 0x800702010301ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0522

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Check the ambient temperature. You must be operating within the specifications (see Features and specifications for more information).
3. Make sure that the heat sink for microprocessor n is installed correctly.
4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

CPU1 VR OverTemp :

- **80070201-0302ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (CPU 2 OverTemp)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 800702010302ffff or 0x800702010302ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0522

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Check the ambient temperature. You must be operating within the specifications (see Features and specifications for more information).
3. Make sure that the heat sink for microprocessor n is installed correctly.
4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

CPU2 VR OverTemp :

- **80070201-1101ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (PCI 1 Temp)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 800702011101ffff or 0x800702011101ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0522

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.

2. Check the ambient temperature. You must be operating within the specifications (see Features and specifications for more information).
3. Make sure that the heat sink for microprocessor n is installed correctly.
4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

- **80070201-1102ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (PCI 2 Temp)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 800702011102ffff or 0x800702011102ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0522

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Check the ambient temperature. You must be operating within the specifications (see Features and specifications for more information).
3. Make sure that the heat sink for microprocessor n is installed correctly.
4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

- **80070201-1103ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (PCI 3 Temp)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 800702011103ffff or 0x800702011103ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information**Prefix: PLAT ID:** 0522**User Response**

1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Check the ambient temperature. You must be operating within the specifications (see Features and specifications for more information).
3. Make sure that the heat sink for microprocessor n is installed correctly.
4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

- **80070201-1104ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (PCI 4 Temp)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 800702011104ffff or 0x800702011104ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information**Prefix: PLAT ID:** 0522**User Response**

1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Check the ambient temperature. You must be operating within the specifications (see Features and specifications for more information).
3. Make sure that the heat sink for microprocessor n is installed correctly.
4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

- **80070201-2c01ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (Exlom Temp)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 800702012c01ffff or 0x800702012c01ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information**Prefix: PLAT ID:** 0522**User Response**

1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
 2. Check the ambient temperature. You must be operating within the specifications (see Features and specifications for more information).
 3. Make sure that the heat sink for microprocessor n is installed correctly.
 4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)
- **80070202-0701ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (SysBrd Vol Fault)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 800702020701ffff or 0x800702020701ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Voltage

SNMP Trap ID

1

CIM Information**Prefix: PLAT ID:** 0522**User Response**

1. Check the system-event log.
2. Check for an error LED on the system board.
3. Replace any failing device.

4. Check for a server firmware update. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
5. (Trained technician only) Replace the system board.

- **80070202-1501ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (PIB Fault)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 800702021501ffff or 0x800702021501ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Voltage

SNMP Trap ID

1

CIM Information

Prefix: PLAT **ID:** 0522

User Response

1. Check the system-event log.
2. Check for an error LED on the system board.
3. Replace any failing device.
4. Check for a server firmware update. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
5. (Trained technician only) Replace the system board.

- **80070202-1502ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (PDB Fault)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 800702021502ffff or 0x800702021502ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Voltage

SNMP Trap ID

1

CIM Information**Prefix:** PLAT ID: 0522**User Response**

1. Check the system-event log.
 2. Check for an error LED on the system board.
 3. Replace any failing device.
 4. Check for a server firmware update. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
 5. (Trained technician only) Replace the system board.
- **8007020d-0b01ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (RAID #1 Volume)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 8007020d0b01ffff or 0x8007020d0b01ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information**Prefix:** PLAT ID: 0522**User Response**

None

- **8007020d-0b07ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (RAID #7 Volume)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 8007020d0b07ffff or 0x8007020d0b07ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category
Critical - Other

SNMP Trap ID
50

CIM Information
Prefix: PLAT ID: 0522

User Response
None

- **8007020d-2b81ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (FDIMM Warranty)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 8007020d2b81ffff or 0x8007020d2b81ffff

Severity
Error

Serviceable
Yes

Automatically notify support
No

Alert Category
Critical - Other

SNMP Trap ID
50

CIM Information
Prefix: PLAT ID: 0522

User Response
None

- **8007020f-2201ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (TXT ACM Module)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 8007020f2201ffff or 0x8007020f2201ffff

Severity
Error

Serviceable
Yes

Automatically notify support
No

Alert Category
Critical - Other

SNMP Trap ID
50

CIM Information

Prefix: PLAT ID: 0522

User Response

1. If enabling TXT is not required, disable TXT from the Setup Utility.
2. If enabling TXT is required, verify that the TPM is enabled and activated from the Setup Utility.
3. If the problem remains, contact your service representative.

- **8007020f-2582ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (I/O Resources)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 8007020f2582ffff or 0x8007020f2582ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0522

User Response

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)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 800702142201ffff or 0x800702142201ffff

Severity

Error

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0522

User Response

1. Update the server firmware (see Recovering the server firmware).
 2. If the problem persists, (trained technician only) replace the system board (see Removing the system board and Installing the system board).
- **80070219-0701ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (SysBrd Fault)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 800702190701ffff or 0x800702190701ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0522

User Response

1. Check for an error LED on the system board.
 2. Check the system-event log.
 3. Check for the system firmware version and update to the latest version. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
 4. Unplug and restore AC power cord, then, perform step 1 and 2 again.
 5. If problems still occurred, (trained technician only) replace the system board.
- **8007021b-0301ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (CPU 1 QPILinkErr)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 8007021b0301ffff or 0x8007021b0301ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0522

User Response

1. Check for a server firmware update.
 2. Make sure that the installed microprocessors are compatible.
 3. Make sure the microprocessor 2 expansion board is installed correctly (see Installing the microprocessor 2 expansion board).
 4. (Trained technician only) Replace microprocessor
 5. (Trained technician only) Replace microprocessor 2 expansion board.
- **8007021b-0302ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (CPU 2 QPILinkErr)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 8007021b0302ffff or 0x8007021b0302ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0522

User Response

1. Check for a server firmware update.
 2. Make sure that the installed microprocessors are compatible.
 3. Make sure the microprocessor 2 expansion board is installed correctly (see Installing the microprocessor 2 expansion board).
 4. (Trained technician only) Replace microprocessor
 5. (Trained technician only) Replace microprocessor 2 expansion board.
- **80070228-2e01ffff : Sensor [SensorElementName] has transitioned to critical from a less severe state. (ME Error)**

This message is for the use case when an implementation has detected a Sensor transitioned to critical from less severe.

May also be shown as 800702282e01ffff or 0x800702282e01ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0522

User Response

None ME Flash Error :

- **80070301-0301ffff : Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (CPU 1 OverTemp)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

May also be shown as 800703010301ffff or 0x800703010301ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0524

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffle is in place and correctly installed, and that the server cover is installed and completely closed.
2. Check the ambient temperature. You must be operating within the specifications (see Server Features and specifications for more information).
3. Make sure that the heat sink for microprocessor n.
4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

CPU1 VR OverTemp :

- **80070301-0302ffff : Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (CPU 2 OverTemp)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

May also be shown as 800703010302ffff or 0x800703010302ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0524

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffle is in place and correctly installed, and that the server cover is installed and completely closed.
2. Check the ambient temperature. You must be operating within the specifications (see Server Features and specifications for more information).
3. Make sure that the heat sink for microprocessor n.
4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

CPU2 VR OverTemp :

- **80070301-1101ffff : Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (PCI 1 Temp)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

May also be shown as 800703011101ffff or 0x800703011101ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0524

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffle is in place and correctly installed, and that the server cover is installed and completely closed.
 2. Check the ambient temperature. You must be operating within the specifications (see Server Features and specifications for more information).
 3. Make sure that the heat sink for microprocessor n.
 4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)
- **80070301-1102ffff : Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (PCI 2 Temp)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

May also be shown as 800703011102ffff or 0x800703011102ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0524

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffle is in place and correctly installed, and that the server cover is installed and completely closed.
 2. Check the ambient temperature. You must be operating within the specifications (see Server Features and specifications for more information).
 3. Make sure that the heat sink for microprocessor n.
 4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)
- **80070301-1103ffff : Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (PCI 3 Temp)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

May also be shown as 800703011103ffff or 0x800703011103ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0524

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffle is in place and correctly installed, and that the server cover is installed and completely closed.
 2. Check the ambient temperature. You must be operating within the specifications (see Server Features and specifications for more information).
 3. Make sure that the heat sink for microprocessor n.
 4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)
- **80070301-1104ffff : Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (PCI 4 Temp)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

May also be shown as 800703011104ffff or 0x800703011104ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0524

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffle is in place and correctly installed, and that the server cover is installed and completely closed.
 2. Check the ambient temperature. You must be operating within the specifications (see Server Features and specifications for more information).
 3. Make sure that the heat sink for microprocessor n.
 4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)
- **80070301-2c01ffff : Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (Exlom Temp)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

May also be shown as 800703012c01ffff or 0x800703012c01ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0524

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffle is in place and correctly installed, and that the server cover is installed and completely closed.
 2. Check the ambient temperature. You must be operating within the specifications (see Server Features and specifications for more information).
 3. Make sure that the heat sink for microprocessor n.
 4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)
- **8007030d-0b01ffff : Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (RAID #1 Volume)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

May also be shown as 8007030d0b01ffff or 0x8007030d0b01ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0524

User Response

None

- **8007030d-0b07ffff : Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (RAID #7 Volume)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

May also be shown as 8007030d0b07ffff or 0x8007030d0b07ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0524

User Response

None

- **8007030d-2b81ffff : Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (FDIMM Warranty)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

May also be shown as 8007030d2b81ffff or 0x8007030d2b81ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0524

User Response

None

- **80070319-2201ffff : Sensor [SensorElementName] has transitioned to non-recoverable from a less severe state. (S3 Resume Fail)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable from less severe.

May also be shown as 800703192201ffff or 0x800703192201ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0524

User Response

None

- **80070614-2201ffff : Sensor [SensorElementName] has transitioned to non-recoverable. (TPM Phy Pres Set)**

This message is for the use case when an implementation has detected a Sensor transitioned to non-recoverable.

May also be shown as 800706142201ffff or 0x800706142201ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0530

User Response

1. Update the server firmware (see Recovering the server firmware).
2. If the problem persists, (trained technician only) replace the system board (see Removing the system board and Installing the system board).

- **8008010f-2101ffff : Device [LogicalDeviceElementName] has been added. (Phy Presence Jmp)**

This message is for the use case when an implementation has detected a Device was inserted.

May also be shown as 8008010f2101ffff or 0x8008010f2101ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information****Prefix: PLAT ID:** 0536**User Response**

No action; information only.

- **80080128-2101ffff : Device [LogicalDeviceElementName] has been added. (Low Security Jmp)**

This message is for the use case when an implementation has detected a Device was inserted.

May also be shown as 800801282101ffff or 0x800801282101ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information****Prefix: PLAT ID:** 0536**User Response**

No action; information only.

- **800a030d-2b81ffff : Sensor [SensorElementName] has indicated a on-line state. (FDIMM Mode)**

This message is for the use case when an implementation has detected a Sensor transitioned to on-line.

May also be shown as 800a030d2b81ffff or 0x800a030d2b81ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information**Prefix:** PLAT ID: 0546**User Response**

No action; information only.

- **800a040d-2b81ffff : Sensor [SensorElementName] has indicated an off-line state. (FDIMM Mode)**

This message is for the use case when an implementation has detected a Sensor transitioned to off-line.

May also be shown as 800a040d2b81ffff or 0x800a040d2b81ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information****Prefix:** PLAT ID: 0548**User Response**

No action; information only.

- **800a060d-2b81ffff : Sensor [SensorElementName] has indicated a degraded state. (FDIMM Mode)**

This message is for the use case when an implementation has detected a Sensor transitioned to a degraded state.

May also be shown as 800a060d2b81ffff or 0x800a060d2b81ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information****Prefix:** PLAT ID: 0552**User Response**

No action; information only.

- **800b010c-2581ffff : Redundancy Lost for [RedundancySetElementName] has asserted. (Backup Memory)**

This message is for the use case when Redundancy Lost has asserted.

May also be shown as 800b010c2581ffff or 0x800b010c2581ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0802

User Response

1. Check the system-event log for DIMM failure events (uncorrectable or PFA) and correct the failures.
2. Re-enable mirroring in the Setup utility.

- **800b030c-2581ffff : Non-redundant:Sufficient Resources from Redundancy Degraded or Fully Redundant for [RedundancySetElementName] has asserted. (Backup Memory)**

This message is for the use case when a Redundancy Set has transitioned from Redundancy Degraded or Fully Redundant to Non-redundant:Sufficient.

May also be shown as 800b030c2581ffff or 0x800b030c2581ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0806

User Response

1. Check the system-event log for DIMM failure events (uncorrectable or PFA) and correct the failures.
2. Re-enable mirroring in the Setup utility.

- **800b050c-2581ffff : Non-redundant:Insufficient Resources for [RedundancySetElementName] has asserted. (Backup Memory)**

This message is for the use case when a Redundancy Set has transitioned to Non-redundant:Insufficient Resources.

May also be shown as 800b050c2581ffff or 0x800b050c2581ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0810

User Response

1. Check the system-event log for DIMM failure events (uncorrectable or PFA) and correct the failures.
2. Re-enable mirroring in the Setup utility.

• **806f0007-0301ffff : [ProcessorElementName] has Failed with IERR. (CPU 1)**

This message is for the use case when an implementation has detected a Processor Failed - IERR Condition.

May also be shown as 806f00070301ffff or 0x806f00070301ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - CPU

SNMP Trap ID

40

CIM Information

Prefix: PLAT ID: 0042

User Response

1. 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)**

This message is for the use case when an implementation has detected a Processor Failed - IERR Condition.

May also be shown as 806f00070302ffff or 0x806f00070302ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - CPU

SNMP Trap ID

40

CIM Information

Prefix: PLAT ID: 0042

User Response

1. 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)**

This message is for the use case when an implementation has detected a Power Unit that has been Disabled.

May also be shown as 806f00091301ffff or 0x806f00091301ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Power Off

SNMP Trap ID

23

CIM Information

Prefix: PLAT ID: 0106

User Response

No action; information only.

- **806f000d-0401ffff : The [StorageVolumeElementName] has been added. (Comput HDD0 Pres)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d0401ffff or 0x806f000d0401ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-0402ffff : The [StorageVolumeElementName] has been added. (Comput HDD1 Pres)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d0402ffff or 0x806f000d0402ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-0403ffff : The [StorageVolumeElementName] has been added. (Comput HDD2 Pres)**

This message is for the use case when an implementation has detected a Drive has been Added.
May also be shown as 806f000d0403ffff or 0x806f000d0403ffff

Severity
Info

Serviceable
No

Automatically notify support
No

Alert Category
Critical - Hard Disk drive

SNMP Trap ID
5

CIM Information
Prefix: PLAT ID: 0162

User Response
No action; information only.

- **806f000d-0404ffff : The [StorageVolumeElementName] has been added. (Comput HDD3 Pres)**

This message is for the use case when an implementation has detected a Drive has been Added.
May also be shown as 806f000d0404ffff or 0x806f000d0404ffff

Severity
Info

Serviceable
No

Automatically notify support
No

Alert Category
Critical - Hard Disk drive

SNMP Trap ID
5

CIM Information
Prefix: PLAT ID: 0162

User Response
No action; information only.

- **806f000d-0405ffff : The [StorageVolumeElementName] has been added. (Comput HDD4 Pres)**

This message is for the use case when an implementation has detected a Drive has been Added.
May also be shown as 806f000d0405ffff or 0x806f000d0405ffff

Severity
Info

Serviceable
No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-0406ffff : The [StorageVolumeElementName] has been added. (Comput HDD5 Pres)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d0406ffff or 0x806f000d0406ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-0407ffff : The [StorageVolumeElementName] has been added. (Comput HDD6 Pres)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d0407ffff or 0x806f000d0407ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-0408ffff : The [StorageVolumeElementName] has been added. (Comput HDD7 Pres)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d0408ffff or 0x806f000d0408ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-0409ffff : The [StorageVolumeElementName] has been added. (1U Stg HDD0 Pres)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d0409ffff or 0x806f000d0409ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-040affff : The [StorageVolumeElementName] has been added. (1U Stg HDD1 Pres)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d040affff or 0x806f000d040affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-040bffff : The [StorageVolumeElementName] has been added. (1U Stg HDD2 Pres)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d040bffff or 0x806f000d040bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-040cffff : The [StorageVolumeElementName] has been added. (1U Stg HDD3 Pres)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d040cffff or 0x806f000d040cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0162**User Response**

No action; information only.

- **806f000d-040dffff : The [StorageVolumeElementName] has been added. (1U Stg HDD4 Pres)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d040dffff or 0x806f000d040dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0162**User Response**

No action; information only.

- **806f000d-040effff : The [StorageVolumeElementName] has been added. (1U Stg HDD5 Pres)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d040effff or 0x806f000d040effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0162**User Response**

No action; information only.

- **806f000d-040fffff : The [StorageVolumeElementName] has been added. (1U Stg HDD6 Pres)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d040fffff or 0x806f000d040fffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-0410ffff : The [StorageVolumeElementName] has been added. (1U Stg HDD7 Pres)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d0410ffff or 0x806f000d0410ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only. SDHV Drive 1 :

- **806f000d-0411ffff : The [StorageVolumeElementName] has been added. (SDHV Drive 2)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d0411ffff or 0x806f000d0411ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-0412ffff : The [StorageVolumeElementName] has been added. (SDHV Drive 3)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d0412ffff or 0x806f000d0412ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-0413ffff : The [StorageVolumeElementName] has been added. (SDHV Drive 4)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d0413ffff or 0x806f000d0413ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-0414ffff : The [StorageVolumeElementName] has been added. (SDHV Drive 5)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d0414ffff or 0x806f000d0414ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-0415ffff : The [StorageVolumeElementName] has been added. (SDHV Drive 6)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d0415ffff or 0x806f000d0415ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-0416ffff : The [StorageVolumeElementName] has been added. (SDHV Drive 7)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d0416ffff or 0x806f000d0416ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-0417ffff : The [StorageVolumeElementName] has been added. (SDHV Drive 8)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d0417ffff or 0x806f000d0417ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-0418ffff : The [StorageVolumeElementName] has been added. (SDHV Drive 9)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d0418ffff or 0x806f000d0418ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-0419ffff : The [StorageVolumeElementName] has been added. (SDHV Drive 10)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d0419ffff or 0x806f000d0419ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-041affff : The [StorageVolumeElementName] has been added. (SDHV Drive 11)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d041affff or 0x806f000d041affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-041bffff : The [StorageVolumeElementName] has been added. (SDHV Drive 12)**

This message is for the use case when an implementation has detected a Drive has been Added.
May also be shown as 806f000d041bffff or 0x806f000d041bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-041cffff : The [StorageVolumeElementName] has been added. (SDHV Drive 13)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d041cffff or 0x806f000d041cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-041dffff : The [StorageVolumeElementName] has been added. (SDHV Drive 14)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d041dffff or 0x806f000d041dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-041effff : The [StorageVolumeElementName] has been added. (SDHV Drive 15)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d041effff or 0x806f000d041effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000d-041fffff : The [StorageVolumeElementName] has been added. (SDHV Drive 16)**

This message is for the use case when an implementation has detected a Drive has been Added.

May also be shown as 806f000d041fffff or 0x806f000d041fffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0162

User Response

No action; information only.

- **806f000f-220101ff : The System [ComputerSystemElementName] has detected no memory in the system. (ABR Status)**

This message is for the use case when an implementation has detected that memory was detected in the system.

May also be shown as 806f000f220101ff or 0x806f000f220101ff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0794

User Response

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)**

This message is for the use case when an implementation has detected that the usable Memory is insufficient for operation.

May also be shown as 806f000f220102ff or 0x806f000f220102ff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0132

User Response

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)**

This message is for the use case when an implementation has detected that System Firmware Error Unrecoverable boot device failure has occurred.

May also be shown as 806f000f220103ff or 0x806f000f220103ff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0770

User Response

This is a UEFI detected event. The UEFI(POST) error code for this event can be found in the logged IMM message text. Please refer to the UEFI(POST) error code in the "UEFI(POST) error code" section of the Information Center for the appropriate user response. Firmware Error : Sys Boot Status :

- **806f000f-220104ff : The System [ComputerSystemElementName]has encountered a motherboard failure. (ABR Status)**

This message is for the use case when an implementation has detected that a fatal motherboard failure in the system.

May also be shown as 806f000f220104ff or 0x806f000f220104ff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0795

User Response

This is a UEFI detected event. The UEFI(POST) error code for this event can be found in the logged IMM message text. Please refer to the UEFI(POST) error code in the "UEFI(POST) error code" section of the Information Center for the appropriate user response. Firmware Error : Sys Boot Status :

- **806f000f-220107ff : The System [ComputerSystemElementName] encountered firmware error - unrecoverable keyboard failure. (ABR Status)**

This message is for the use case when an implementation has detected that System Firmware Error Unrecoverable Keyboard failure has occurred.

May also be shown as 806f000f220107ff or 0x806f000f220107ff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0764

User Response

This is a UEFI detected event. The UEFI(POST) error code for this event can be found in the logged IMM message text. Please refer to the UEFI(POST) error code in the "UEFI(POST) error code" section of the Information Center for the appropriate user response. Firmware Error : Sys Boot Status :

- **806f000f-22010aff : The System [ComputerSystemElementName] encountered firmware error - no video device detected. (ABR Status)**

This message is for the use case when an implementation has detected that System Firmware Error No video device detected has occurred.

May also be shown as 806f000f22010aff or 0x806f000f22010aff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0766

User Response

This is a UEFI detected event. The UEFI(POST) error 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)**

Firmware BIOS (ROM) corruption was detected on the system during POST.

May also be shown as 806f000f22010bff or 0x806f000f22010bff

Severity

Info

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

40

CIM Information

Prefix: PLAT ID: 0850

User Response

1. Make sure the server meets the minimum configuration to start (see Power-supply LEDs).
2. Recover the server firmware from the backup page: a.Restart the server. b.At the prompt, press F3 to recover the firmware.
3. Update the server firmware to the latest level (see Updating the firmware). Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
4. Remove components one at a time, restarting the server each time, to see if the problem goes away.
5. If the problem remains, (trained service technician) replace the system board.

Firmware Error : Sys Boot Status :

- **806f000f-22010cff : CPU voltage mismatch detected on [ProcessorElementName]. (ABR Status)**

This message is for the use case when an implementation has detected a CPU voltage mismatch with the socket voltage.

May also be shown as 806f000f22010cff or 0x806f000f22010cff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - CPU

SNMP Trap ID

40

CIM Information**Prefix:** PLAT ID: 0050**User Response**

This is a UEFI detected event. The UEFI(POST) error code for this event can be found in the logged IMM message text. Please refer to the UEFI(POST) error code in the "UEFI(POST) error code" section of the Information Center for the appropriate user response. Firmware Error : Sys Boot Status :

- **806f000f-2201ffff : The System [ComputerSystemElementName] encountered a POST Error. (ABR Status)**

This message is for the use case when an implementation has detected a Post Error.

May also be shown as 806f000f2201ffff or 0x806f000f2201ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information**Prefix:** PLAT ID: 0184**User Response**

This is a UEFI detected event. The UEFI(POST) error code for this event can be found in the logged IMM message text. Please refer to the UEFI(POST) error code in the "UEFI(POST) error code" section of the Information Center for the appropriate user response. Firmware Error : Sys Boot Status :

- **806f0013-1701ffff : A diagnostic interrupt has occurred on system [ComputerSystemElementName]. (NMI State)**

This message is for the use case when an implementation has detected a Front Panel NMI / Diagnostic Interrupt.

May also be shown as 806f00131701ffff or 0x806f00131701ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0222

User Response

If the NMI button has not been pressed, complete the following steps:

1. Make sure that the NMI button is not pressed.
2. Replace the operator information panel cable.
3. Replace the operator information panel.

- **806f001e-2201ffff : No bootable media available for system [ComputerSystemElementName]. (No Boot Device)**

This message is for the use case when an implementation has detected a System with No Bootable Media.

May also be shown as 806f001e2201ffff or 0x806f001e2201ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0286

User Response

No action; information only.

- **806f0021-2201ffff : Fault in slot [PhysicalConnectorSystemElementName] on system [ComputerSystemElementName]. (No Op ROM Space)**

This message is for the use case when an implementation has detected a Fault in a slot.

May also be shown as 806f00212201ffff or 0x806f00212201ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0330

User Response

1. Check the PCI LED.
2. Reseat the affected adapters and riser card.
3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
4. 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)**

This message is for the use case when an implementation has detected a Fault in a slot.

May also be shown as 806f00212582ffff or 0x806f00212582ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0330

User Response

1. Check the PCI LED.
2. Reseat the affected adapters and riser card.
3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
4. 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)**

This message is for the use case when an implementation has detected a Fault in a slot.

May also be shown as 806f00212c01ffff or 0x806f00212c01ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0330

User Response

1. Check the PCI LED.
2. Reseat the affected adapters and riser card.
3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
4. 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)**

This message is for the use case when an implementation has detected a Fault in a slot.

May also be shown as 806f00213001ffff or 0x806f00213001ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0330

User Response

1. Check the PCI LED.
2. Reseat the affected adapters and riser card.

3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
4. 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)**

This message is for the use case when an implementation has detected a Fault in a slot.

May also be shown as 806f00213002ffff or 0x806f00213002ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0330

User Response

1. Check the PCI LED.
2. Reseat the affected adapters and riser card.
3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
4. 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)**

This message is for the use case when an implementation has detected a Fault in a slot.

May also be shown as 806f00213003ffff or 0x806f00213003ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0330

User Response

1. Check the PCI LED.
 2. Reseat the affected adapters and riser card.
 3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
 4. 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)**

This message is for the use case when an implementation has detected a Fault in a slot.

May also be shown as 806f00213004ffff or 0x806f00213004ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0330

User Response

1. Check the PCI LED.
2. Reseat the affected adapters and riser card.
3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
4. 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)**

This message is for the use case when an implementation has detected a Fault in a slot.

May also be shown as 806f00213005ffff or 0x806f00213005ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0330

User Response

1. Check the PCI LED.
2. Reseat the affected adapters and riser card.
3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
4. 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)**

This message is for the use case when an implementation has detected a Fault in a slot.

May also be shown as 806f00213006ffff or 0x806f00213006ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0330

User Response

1. Check the PCI LED.
2. Reseat the affected adapters and riser card.
3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
4. 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)**

This message is for the use case when an implementation has detected a Watchdog Timer Expired.

May also be shown as 806f00232101ffff or 0x806f00232101ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0368

User Response

No action; information only.

- **806f0028-2101ffff : Sensor [SensorElementName] is unavailable or degraded on management system [ComputerSystemElementName]. (TPM Cmd Failures)**

This message is for the use case when an implementation has detected a Sensor is Unavailable or degraded.

May also be shown as 806f00282101ffff or 0x806f00282101ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

Warning - Other

SNMP Trap ID

60

CIM Information

Prefix: PLAT ID: 0398

User Response

1. Turn off the server and disconnect the power cords. Reconnect the power cords and restart the server.
2. If the problem remains, (trained technician only) replace the system board.

- **806f0107-0301ffff : An Over-Temperature Condition has been detected on [ProcessorElementName]. (CPU 1)**

This message is for the use case when an implementation has detected an Over-Temperature Condition Detected for Processor.

May also be shown as 806f01070301ffff or 0x806f01070301ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0036

User Response

1. Make sure that the fans are operating. There are no obstructions to the airflow (front and rear of the server), the air baffles are in place and correctly installed, and the server cover is installed and completely closed.
2. Make sure that the heat sink for microprocessor n is installed correctly.
3. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

- **806f0107-0302ffff : An Over-Temperature Condition has been detected on [ProcessorElementName]. (CPU 2)**

This message is for the use case when an implementation has detected an Over-Temperature Condition Detected for Processor.

May also be shown as 806f01070302ffff or 0x806f01070302ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information**Prefix:** PLAT ID: 0036**User Response**

1. Make sure that the fans are operating. There are no obstructions to the airflow (front and rear of the server), the air baffles are in place and correctly installed, and the server cover is installed and completely closed.
2. Make sure that the heat sink for microprocessor n is installed correctly.
3. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

- **806f0108-1501ffff : [PowerSupplyElementName] has Failed. (HSC Status)**

This message is for the use case when an implementation has detected a Power Supply has failed.

May also be shown as 806f01081501ffff or 0x806f01081501ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Power

SNMP Trap ID

4

CIM Information**Prefix:** PLAT ID: 0086**User Response**

1. Reseat power supply n.
2. If the power-on LED is not lit and the power-supply error LED is lit, replace power supply n.
3. If both the power-on LED and the power-supply error LED are not lit, see Power problems for more information. (n = power supply number)

- **806f0109-1301ffff : [PowerSupplyElementName] has been Power Cycled. (Host Power)**

This message is for the use case when an implementation has detected a Power Unit that has been power cycled.

May also be shown as 806f01091301ffff or 0x806f01091301ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0108

User Response

No action; information only.

- **806f010c-2001ffff : Uncorrectable error detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1)**

This message is for the use case when an implementation has detected a Memory uncorrectable error.

May also be shown as 806f010c2001ffff or 0x806f010c2001ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0138

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected a Memory uncorrectable error.
May also be shown as 806f010c2002ffff or 0x806f010c2002ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0138

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected a Memory uncorrectable error.
May also be shown as 806f010c2003ffff or 0x806f010c2003ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0138

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected a Memory uncorrectable error.

May also be shown as 806f010c2004ffff or 0x806f010c2004ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0138

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected a Memory uncorrectable error.

May also be shown as 806f010c2005ffff or 0x806f010c2005ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0138

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected a Memory uncorrectable error.

May also be shown as 806f010c2006ffff or 0x806f010c2006ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0138

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected a Memory uncorrectable error.
May also be shown as 806f010c2007ffff or 0x806f010c2007ffff

Severity
Error

Serviceable
Yes

Automatically notify support
Yes

Alert Category
Critical - Memory

SNMP Trap ID
41

CIM Information
Prefix: PLAT ID: 0138

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected a Memory uncorrectable error.
May also be shown as 806f010c2008ffff or 0x806f010c2008ffff

Severity
Error

Serviceable
Yes

Automatically notify support
Yes

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0138

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected a Memory uncorrectable error.

May also be shown as 806f010c2009ffff or 0x806f010c2009ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0138

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected a Memory uncorrectable error.

May also be shown as 806f010c200affff or 0x806f010c200affff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0138

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected a Memory uncorrectable error.

May also be shown as 806f010c200bffff or 0x806f010c200bffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0138

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected a Memory uncorrectable error.

May also be shown as 806f010c200cffff or 0x806f010c200cffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0138

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected a Memory uncorrectable error.

May also be shown as 806f010c200dffff or 0x806f010c200dffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0138

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected a Memory uncorrectable error.

May also be shown as 806f010c200effff or 0x806f010c200effff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0138

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected a Memory uncorrectable error.

May also be shown as 806f010c200ffff or 0x806f010c200ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0138

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 Lenovo 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)**

This message is for the use case when an implementation has detected a Memory uncorrectable error.

May also be shown as 806f010c2010ffff or 0x806f010c2010ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0138

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected a Memory uncorrectable error.

May also be shown as 806f010c2581ffff or 0x806f010c2581ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0138

User Response

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 Lenovo 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 [StorageVolumeElementName] has been disabled due to a detected fault. (Computer HDD0)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d0401ffff or 0x806f010d0401ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
 2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
 3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)
- **806f010d-0402ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (Computer HDD1)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d0402ffff or 0x806f010d0402ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
 2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
 3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)
- **806f010d-0403ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (Computer HDD2)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d0403ffff or 0x806f010d0403ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0404ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (Computer HDD3)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d0404ffff or 0x806f010d0404ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0405ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (Computer HDD4)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.
May also be shown as 806f010d0405ffff or 0x806f010d0405ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
 2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
 3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)
- **806f010d-0406ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (Computer HDD5)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.
May also be shown as 806f010d0406ffff or 0x806f010d0406ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane

3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0407ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (Computer HDD6)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d0407ffff or 0x806f010d0407ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0408ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (Computer HDD7)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d0408ffff or 0x806f010d0408ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0409ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (1U Storage HDD0)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d0409ffff or 0x806f010d0409ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-040affff : The [StorageVolumeElementName] has been disabled due to a detected fault. (1U Storage HDD1)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d040affff or 0x806f010d040affff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0164**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-040bffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (1U Storage HDD2)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d040bffff or 0x806f010d040bffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0164**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-040cffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (1U Storage HDD3)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d040cffff or 0x806f010d040cffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-040dffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (1U Storage HDD4)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d040dffff or 0x806f010d040dffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-040effff : The [StorageVolumeElementName] has been disabled due to a detected fault. (1U Storage HDD5)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d040effff or 0x806f010d040effff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
 2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
 3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)
- **806f010d-040ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (1U Storage HDD6)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d040ffff or 0x806f010d040ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0410ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (1U Storage HDD7)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d0410ffff or 0x806f010d0410ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

SDHV Drive 1 :

- **806f010d-0411ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 2)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d0411ffff or 0x806f010d0411ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.

2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0412ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 3)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault. May also be shown as 806f010d0412ffff or 0x806f010d0412ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0413ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 4)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault. May also be shown as 806f010d0413ffff or 0x806f010d0413ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0414ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 5)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d0414ffff or 0x806f010d0414ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-0415ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 6)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d0415ffff or 0x806f010d0415ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
 2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
 3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)
- **806f010d-0416ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 7)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d0416ffff or 0x806f010d0416ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
 2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
 3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)
- **806f010d-0417ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 8)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d0417ffff or 0x806f010d0417ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
 2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
 3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)
- **806f010d-0418ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 9)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d0418ffff or 0x806f010d0418ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
 2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
 3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)
- **806f010d-0419ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 10)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d0419ffff or 0x806f010d0419ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
 2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
 3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)
- **806f010d-041affff : The [StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 11)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d041affff or 0x806f010d041affff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-041bffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 12)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d041bffff or 0x806f010d041bffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-041cffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 13)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d041cffff or 0x806f010d041cffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.

2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-041dffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 14)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault. May also be shown as 806f010d041dffff or 0x806f010d041dffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-041effff : The [StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 15)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault. May also be shown as 806f010d041effff or 0x806f010d041effff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-041ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (SDHV Drive 16)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d041ffff or 0x806f010d041ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)

- **806f010d-2b81ffff : The [StorageVolumeElementName] has been disabled due to a detected fault. (FDIMM Stat)**

This message is for the use case when an implementation has detected a Drive was Disabled due to fault.

May also be shown as 806f010d2b81ffff or 0x806f010d2b81ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0164

User Response

1. Run the hard disk drive diagnostic test on drive n.
 2. Reseat the following components: a. Hard disk drive (wait 1 minute or more before reinstalling the drive) b. Cable from the system board to the backplane
 3. Replace the following components one at a time, in the order shown, restarting the server each time: a. Hard disk drive b. Cable from the system board to the backplane c. Hard disk drive backplane (n = hard disk drive number)
- **806f010f-2201ffff : The System [ComputerSystemElementName] encountered a firmware hang. (Firmware Error)**

This message is for the use case when an implementation has detected a System Firmware Hang.

May also be shown as 806f010f2201ffff or 0x806f010f2201ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

System - Boot failure

SNMP Trap ID

25

CIM Information

Prefix: PLAT ID: 0186

User Response

1. Make sure the server meets the minimum configuration to start (see Power-supply LEDs).
 2. Update the server firmware on the primary page. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
 3. (Trained technician only) Replace the system board.
- **806f0113-0301ffff : A bus timeout has occurred on bus [SensorElementName]. (CPU 1 PECl)**

This message is for the use case when an implementation has detected a Bus Timeout.

May also be shown as 806f01130301ffff or 0x806f01130301ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0224

User Response

1. (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 bus [SensorElementName]. (CPU 2 Peci)**

This message is for the use case when an implementation has detected a Bus Timeout.

May also be shown as 806f01130302ffff or 0x806f01130302ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0224

User Response

1. (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)**

This message is for the use case when an implementation has detected a Reboot by a Watchdog occurred.

May also be shown as 806f01232101ffff or 0x806f01232101ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0370

User Response

No action; information only.

- **806f0125-1001ffff : [ManagedElementName] detected as absent. (PCI Riser 1)**

This message is for the use case when an implementation has detected a Managed Element is Absent.

May also be shown as 806f01251001ffff or 0x806f01251001ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0392

User Response

Please ensure the PCI riser 1 has been installed correctly.

- **806f0125-1002ffff : [ManagedElementName] detected as absent. (PCI Riser 2)**

This message is for the use case when an implementation has detected a Managed Element is Absent.

May also be shown as 806f01251002ffff or 0x806f01251002ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0392

User Response

Please ensure the PCI riser 1 has been installed correctly.

- **806f0125-1f01ffff : [ManagedElementName] detected as absent. (PDB Cable)**

This message is for the use case when an implementation has detected a Managed Element is Absent.

May also be shown as 806f01251f01ffff or 0x806f01251f01ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0392

User Response

Please ensure the PCI riser 1 has been installed correctly.

- **806f0125-2c01ffff : [ManagedElementName] detected as absent. (Exlom Card)**

This message is for the use case when an implementation has detected a Managed Element is Absent.

May also be shown as 806f01252c01ffff or 0x806f01252c01ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0392

User Response

Please ensure the PCI riser 1 has been installed correctly.

- **806f0207-0301ffff : [ProcessorElementName] has Failed with FRB1/BIST condition. (CPU 1)**

This message is for the use case when an implementation has detected a Processor Failed - FRB1/BIST condition.

May also be shown as 806f02070301ffff or 0x806f02070301ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - CPU

SNMP Trap ID

40

CIM Information

Prefix: PLAT ID: 0044

User Response

1. 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)**

This message is for the use case when an implementation has detected a Processor Failed - FRB1/BIST condition.

May also be shown as 806f02070302ffff or 0x806f02070302ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - CPU

SNMP Trap ID

40

CIM Information

Prefix: PLAT ID: 0044

User Response

1. 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)**

This message is for the use case when an implementation has detected a Processor Failed - FRB1/BIST condition.

May also be shown as 806f02072584ffff or 0x806f02072584ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - CPU

SNMP Trap ID

40

CIM Information

Prefix: PLAT ID: 0044

User Response

1. 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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (Computer HDD0)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d0401ffff or 0x806f020d0401ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (Computer HDD1)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d0402ffff or 0x806f020d0402ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (Computer HDD2)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d0403ffff or 0x806f020d0403ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
 2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (Computer HDD3)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d0404ffff or 0x806f020d0404ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
 2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (Computer HDD4)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d0405ffff or 0x806f020d0405ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (Computer HDD5)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d0406ffff or 0x806f020d0406ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (Computer HDD6)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d0407ffff or 0x806f020d0407ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (Computer HDD7)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d0408ffff or 0x806f020d0408ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.

2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD0)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d0409ffff or 0x806f020d0409ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD1)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d040affff or 0x806f020d040affff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD2)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d040bffff or 0x806f020d040bffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD3)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d040cffff or 0x806f020d040cffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD4)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d040dffff or 0x806f020d040dffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD5)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d040effff or 0x806f020d040effff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
 2. Reseat the following components: a. Hard disk drive (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-040ffff : Failure Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD6)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d040ffff or 0x806f020d040ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
 2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD7)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d0410ffff or 0x806f020d0410ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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)

SDHV Drive 1 :

- **806f020d-0411ffff : Failure Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 2)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d0411ffff or 0x806f020d0411ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 3)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d0412ffff or 0x806f020d0412ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 4)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d0413ffff or 0x806f020d0413ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 5)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d0414ffff or 0x806f020d0414ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 6)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d0415ffff or 0x806f020d0415ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information**Prefix:** PLAT ID: 0168**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 7)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d0416ffff or 0x806f020d0416ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information**Prefix:** PLAT ID: 0168**User Response**

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 8)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d0417ffff or 0x806f020d0417ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 9)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d0418ffff or 0x806f020d0418ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 10)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d0419ffff or 0x806f020d0419ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
 2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 11)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d041affff or 0x806f020d041affff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 12)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d041bffff or 0x806f020d041bffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 13)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d041cffff or 0x806f020d041cffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.

2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 14)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d041dffff or 0x806f020d041dffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 15)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d041effff or 0x806f020d041effff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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-041ffff : Failure Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 16)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d041ffff or 0x806f020d041ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
2. Reseat the following components: a. Hard disk drive (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 [StorageVolumeElementName] for array [ComputerSystemElementName]. (FDIMM Stat)**

This message is for the use case when an implementation has detected an Array Failure is Predicted.

May also be shown as 806f020d2b81ffff or 0x806f020d2b81ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0168

User Response

1. Run the hard disk drive diagnostic test on drive n.
 2. Reseat the following components: a. Hard disk drive (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)**

This message is for the use case when an implementation has detected a Poweroff by Watchdog has occurred.

May also be shown as 806f02232101ffff or 0x806f02232101ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0372

User Response

No action; information only.

- **806f030c-2001ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1)**

This message is for the use case when an implementation has detected a Memory Scrub failure.

May also be shown as 806f030c2001ffff or 0x806f030c2001ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0136

User Response

Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Refer to TIP H212293 for minimum code level.
2. Check the Lenovo 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)**

This message is for the use case when an implementation has detected a Memory Scrub failure.

May also be shown as 806f030c2002ffff or 0x806f030c2002ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0136

User Response

Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Refer to TIP H212293 for minimum code level.
2. Check the Lenovo 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)**

This message is for the use case when an implementation has detected a Memory Scrub failure.

May also be shown as 806f030c2003ffff or 0x806f030c2003ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0136

User Response

Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Refer to TIP H212293 for minimum code level.
2. Check the Lenovo 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)**

This message is for the use case when an implementation has detected a Memory Scrub failure.

May also be shown as 806f030c2004ffff or 0x806f030c2004ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0136

User Response

Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Refer to TIP H212293 for minimum code level.
2. Check the Lenovo 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)**

This message is for the use case when an implementation has detected a Memory Scrub failure.

May also be shown as 806f030c2005ffff or 0x806f030c2005ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

CIM Information**Prefix:** PLAT ID: 0136**User Response**

Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Refer to TIP H212293 for minimum code level.
 2. Check the Lenovo 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)**

This message is for the use case when an implementation has detected a Memory Scrub failure.

May also be shown as 806f030c2006ffff or 0x806f030c2006ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information**Prefix:** PLAT ID: 0136**User Response**

Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Refer to TIP H212293 for minimum code level.
2. Check the Lenovo 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)**

This message is for the use case when an implementation has detected a Memory Scrub failure.

May also be shown as 806f030c2007ffff or 0x806f030c2007ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0136

User Response

Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Refer to TIP H212293 for minimum code level.
2. Check the Lenovo 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)**

This message is for the use case when an implementation has detected a Memory Scrub failure.

May also be shown as 806f030c2008ffff or 0x806f030c2008ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information**Prefix:** PLAT ID: 0136**User Response**

Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Refer to TIP H212293 for minimum code level.
 2. Check the Lenovo 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)**

This message is for the use case when an implementation has detected a Memory Scrub failure.

May also be shown as 806f030c2009ffff or 0x806f030c2009ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information**Prefix:** PLAT ID: 0136

User Response

Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Refer to TIP H212293 for minimum code level.
 2. Check the Lenovo 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)**

This message is for the use case when an implementation has detected a Memory Scrub failure.

May also be shown as 806f030c200affff or 0x806f030c200affff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0136

User Response

Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Refer to TIP H212293 for minimum code level.
2. Check the Lenovo 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-200bfff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11)**

This message is for the use case when an implementation has detected a Memory Scrub failure.

May also be shown as 806f030c200bfff or 0x806f030c200bfff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0136

User Response

Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Refer to TIP H212293 for minimum code level.
2. Check the Lenovo 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-200cfff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12)**

This message is for the use case when an implementation has detected a Memory Scrub failure.

May also be shown as 806f030c200cfff or 0x806f030c200cfff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0136

User Response

Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Refer to TIP H212293 for minimum code level.
2. Check the Lenovo 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)**

This message is for the use case when an implementation has detected a Memory Scrub failure.

May also be shown as 806f030c200dffff or 0x806f030c200dffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0136

User Response

Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Refer to TIP H212293 for minimum code level.
 2. Check the Lenovo 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)**

This message is for the use case when an implementation has detected a Memory Scrub failure.

May also be shown as 806f030c200effff or 0x806f030c200effff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0136

User Response

Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Refer to TIP H212293 for minimum code level.
2. Check the Lenovo 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-200ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15)**

This message is for the use case when an implementation has detected a Memory Scrub failure.

May also be shown as 806f030c200ffff or 0x806f030c200ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0136

User Response

Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Refer to TIP H212293 for minimum code level.
2. Check the Lenovo 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)**

This message is for the use case when an implementation has detected a Memory Scrub failure.

May also be shown as 806f030c2010ffff or 0x806f030c2010ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0136

User Response

Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Refer to TIP H212293 for minimum code level.
2. Check the Lenovo 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)**

This message is for the use case when an implementation has detected a Memory Scrub failure.

May also be shown as 806f030c2581ffff or 0x806f030c2581ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0136

User Response

Note: Each time you install or remove a DIMM, you must disconnect the server from the power source; then, wait 10 seconds before restarting the server.

1. Refer to TIP H212293 for minimum code level.
2. Check the Lenovo 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)**

This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d0401ffff or 0x806f030d0401ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0170

User Response

No action; information only.

- **806f030d-0402ffff : Hot Spare enabled for [ComputerSystemElementName]. (Computer HDD1)**

This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d0402ffff or 0x806f030d0402ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0170

User Response

No action; information only.

- **806f030d-0403ffff : Hot Spare enabled for [ComputerSystemElementName]. (Computer HDD2)**

This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d0403ffff or 0x806f030d0403ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0170

User Response

No action; information only.

- **806f030d-0404ffff : Hot Spare enabled for [ComputerSystemElementName]. (Computer HDD3)**

This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d0404ffff or 0x806f030d0404ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0170

User Response

No action; information only.

- **806f030d-0405ffff : Hot Spare enabled for [ComputerSystemElementName]. (Computer HDD4)**

This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d0405ffff or 0x806f030d0405ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0170

User Response

No action; information only.

- **806f030d-0406ffff : Hot Spare enabled for [ComputerSystemElementName]. (Computer HDD5)**

This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d0406ffff or 0x806f030d0406ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0170

User Response

No action; information only.

- **806f030d-0407ffff : Hot Spare enabled for [ComputerSystemElementName]. (Computer HDD6)**

This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d0407ffff or 0x806f030d0407ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0170

User Response

No action; information only.

- **806f030d-0408ffff : Hot Spare enabled for [ComputerSystemElementName]. (Computer HDD7)**

This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d0408ffff or 0x806f030d0408ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0170

User Response

No action; information only.

- **806f030d-0409ffff : Hot Spare enabled for [ComputerSystemElementName]. (1U Storage HDD0)**

This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d0409ffff or 0x806f030d0409ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0170

User Response

No action; information only.

- **806f030d-040affff : Hot Spare enabled for [ComputerSystemElementName]. (1U Storage HDD1)**

This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d040affff or 0x806f030d040affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0170

User Response

No action; information only.

- **806f030d-040bffff : Hot Spare enabled for [ComputerSystemElementName]. (1U Storage HDD2)**

This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d040bffff or 0x806f030d040bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0170

User Response

No action; information only.

- **806f030d-040cffff : Hot Spare enabled for [ComputerSystemElementName]. (1U Storage HDD3)**

This message is for the use case when an implementation has detected a Hot Spare has been Enabled.
May also be shown as 806f030d040cffff or 0x806f030d040cffff

Severity
Info

Serviceable
No

Automatically notify support
No

Alert Category
System - Other

SNMP Trap ID

CIM Information
Prefix: PLAT ID: 0170

User Response
No action; information only.

- **806f030d-040dffff : Hot Spare enabled for [ComputerSystemElementName]. (1U Storage HDD4)**

This message is for the use case when an implementation has detected a Hot Spare has been Enabled.
May also be shown as 806f030d040dffff or 0x806f030d040dffff

Severity
Info

Serviceable
No

Automatically notify support
No

Alert Category
System - Other

SNMP Trap ID

CIM Information
Prefix: PLAT ID: 0170

User Response
No action; information only.

- **806f030d-040effff : Hot Spare enabled for [ComputerSystemElementName]. (1U Storage HDD5)**

This message is for the use case when an implementation has detected a Hot Spare has been Enabled.
May also be shown as 806f030d040effff or 0x806f030d040effff

Severity
Info

Serviceable
No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0170

User Response

No action; information only.

- **806f030d-040fffff : Hot Spare enabled for [ComputerSystemElementName]. (1U Storage HDD6)**

This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d040fffff or 0x806f030d040fffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0170

User Response

No action; information only.

- **806f030d-0410ffff : Hot Spare enabled for [ComputerSystemElementName]. (1U Storage HDD7)**

This message is for the use case when an implementation has detected a Hot Spare has been Enabled.

May also be shown as 806f030d0410ffff or 0x806f030d0410ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0170

User Response

No action; information only.

- **806f0313-1701ffff : A software NMI has occurred on system [ComputerSystemElementName]. (NMI State)**

This message is for the use case when an implementation has detected a Software NMI.

May also be shown as 806f03131701ffff or 0x806f03131701ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0228

User Response

1. Check the device driver.
2. Reinstall the device driver.
3. Update all device drivers to the latest level.
4. Update the firmware (UEFI and IMM).

- **806f0322-1301ffff : Computer System [ComputerSystemElementName] is in Standby. (ACPI Power State)**

This message is for the use case when an implementation has detected a System went into Standby mode.

May also be shown as 806f03221301ffff or 0x806f03221301ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0360

User Response

No action; information only.

- **806f0323-2101ffff : Power cycle of system [ComputerSystemElementName] initiated by watchdog [WatchdogElementName]. (IPMI Watchdog)**

This message is for the use case when an implementation has detected a Power Cycle by Watchdog occurred.

May also be shown as 806f03232101ffff or 0x806f03232101ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0374

User Response

No action; information only.

- **806f040c-2001ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 1)**

This message is for the use case when an implementation has detected that Memory has been Disabled.

May also be shown as 806f040c2001ffff or 0x806f040c2001ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0131

User Response

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the Lenovo support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2002ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 2)**

This message is for the use case when an implementation has detected that Memory has been Disabled.

May also be shown as 806f040c2002ffff or 0x806f040c2002ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0131

User Response

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the Lenovo support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2003ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 3)**

This message is for the use case when an implementation has detected that Memory has been Disabled.

May also be shown as 806f040c2003ffff or 0x806f040c2003ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0131

User Response

1. Make sure the DIMM is installed correctly.

2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the Lenovo support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2004ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 4)**

This message is for the use case when an implementation has detected that Memory has been Disabled.
May also be shown as 806f040c2004ffff or 0x806f040c2004ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0131

User Response

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the Lenovo support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2005ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 5)**

This message is for the use case when an implementation has detected that Memory has been Disabled.
May also be shown as 806f040c2005ffff or 0x806f040c2005ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0131

User Response

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the Lenovo support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2006ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 6)**

This message is for the use case when an implementation has detected that Memory has been Disabled.

May also be shown as 806f040c2006ffff or 0x806f040c2006ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0131

User Response

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the Lenovo support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2007ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 7)**

This message is for the use case when an implementation has detected that Memory has been Disabled.

May also be shown as 806f040c2007ffff or 0x806f040c2007ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category
System - Other

SNMP Trap ID

CIM Information
Prefix: PLAT ID: 0131

User Response

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the Lenovo support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2008ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 8)**

This message is for the use case when an implementation has detected that Memory has been Disabled.

May also be shown as 806f040c2008ffff or 0x806f040c2008ffff

Severity
Info

Serviceable
No

Automatically notify support
No

Alert Category
System - Other

SNMP Trap ID

CIM Information
Prefix: PLAT ID: 0131

User Response

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the Lenovo support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2009ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 9)**

This message is for the use case when an implementation has detected that Memory has been Disabled.

May also be shown as 806f040c2009ffff or 0x806f040c2009ffff

Severity
Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0131

User Response

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the Lenovo support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-200affff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 10)**

This message is for the use case when an implementation has detected that Memory has been Disabled.

May also be shown as 806f040c200affff or 0x806f040c200affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0131

User Response

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the Lenovo support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-200bffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 11)**

This message is for the use case when an implementation has detected that Memory has been Disabled.

May also be shown as 806f040c200bffff or 0x806f040c200bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0131

User Response

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the Lenovo support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

• **806f040c-200cffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 12)**

This message is for the use case when an implementation has detected that Memory has been Disabled.

May also be shown as 806f040c200cffff or 0x806f040c200cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0131

User Response

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the Lenovo support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-200dffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 13)**

This message is for the use case when an implementation has detected that Memory has been Disabled.

May also be shown as 806f040c200dffff or 0x806f040c200dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0131

User Response

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the Lenovo support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-200effff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 14)**

This message is for the use case when an implementation has detected that Memory has been Disabled.

May also be shown as 806f040c200effff or 0x806f040c200effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0131

User Response

1. Make sure the DIMM is installed correctly.

2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the Lenovo 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-200ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 15)**

This message is for the use case when an implementation has detected that Memory has been Disabled.
May also be shown as 806f040c200ffff or 0x806f040c200ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0131

User Response

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the Lenovo support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2010ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (DIMM 16)**

This message is for the use case when an implementation has detected that Memory has been Disabled.
May also be shown as 806f040c2010ffff or 0x806f040c2010ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0131

User Response

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the Lenovo support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

- **806f040c-2581ffff : [PhysicalMemoryElementName] Disabled on Subsystem [MemoryElementName]. (All DIMMS)**

This message is for the use case when an implementation has detected that Memory has been Disabled.

May also be shown as 806f040c2581ffff or 0x806f040c2581ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0131

User Response

1. Make sure the DIMM is installed correctly.
2. If the DIMM was disabled because of a memory fault (memory uncorrectable error or memory logging limit reached), follow the suggested actions for that error event and restart the server.
3. Check the Lenovo support website for an applicable retain tip or firmware update that applies to this memory event. If no memory fault is recorded in the logs and no DIMM connector error LED is lit, you can re-enable the DIMM through the Setup utility or the Advanced Settings Utility (ASU).

One of the DIMMs :

- **806f0413-2582ffff : A PCI PERR has occurred on system [ComputerSystemElementName]. (PCIs)**

This message is for the use case when an implementation has detected a PCI PERR.

May also be shown as 806f04132582ffff or 0x806f04132582ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0232

User Response

1. Check the PCI LED.
 2. Reseat the affected adapters and riser cards.
 3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
 4. Remove both adapters.
 5. Replace the PCIe adapters.
 6. Replace the riser card.
- **806f0507-0301ffff : [ProcessorElementName] has a Configuration Mismatch. (CPU 1)**

This message is for the use case when an implementation has detected a Processor Configuration Mismatch has occurred.

May also be shown as 806f05070301ffff or 0x806f05070301ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - CPU

SNMP Trap ID

40

CIM Information

Prefix: PLAT ID: 0062

User Response

1. 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)**
- This message is for the use case when an implementation has detected a Processor Configuration Mismatch has occurred.
- May also be shown as 806f05070302ffff or 0x806f05070302ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - CPU

SNMP Trap ID

40

CIM Information

Prefix: PLAT ID: 0062

User Response

1. 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)**

This message is for the use case when an implementation has detected a Processor Configuration Mismatch has occurred.

May also be shown as 806f05072584ffff or 0x806f05072584ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - CPU

SNMP Trap ID

40

CIM Information

Prefix: PLAT ID: 0062

User Response

1. 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)**

This message is for the use case when an implementation has detected a Power Supply that has input out of range.

May also be shown as 806f05081501ffff or 0x806f05081501ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0098

User Response

No action; information only.

- **806f050c-2001ffff : Memory Logging Limit Reached for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

May also be shown as 806f050c2001ffff or 0x806f050c2001ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0144

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

May also be shown as 806f050c2002ffff or 0x806f050c2002ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0144

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

May also be shown as 806f050c2003ffff or 0x806f050c2003ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0144

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

May also be shown as 806f050c2004ffff or 0x806f050c2004ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0144

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

May also be shown as 806f050c2005ffff or 0x806f050c2005ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0144

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

May also be shown as 806f050c2006ffff or 0x806f050c2006ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0144

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

May also be shown as 806f050c2007ffff or 0x806f050c2007ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0144

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

May also be shown as 806f050c2008ffff or 0x806f050c2008ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0144

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

May also be shown as 806f050c2009ffff or 0x806f050c2009ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0144

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

May also be shown as 806f050c200affff or 0x806f050c200affff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information**Prefix: PLAT ID:** 0144**User Response**

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 Lenovo 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)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

May also be shown as 806f050c200bffff or 0x806f050c200bffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information**Prefix: PLAT ID:** 0144**User Response**

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 Lenovo 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)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

May also be shown as 806f050c200cffff or 0x806f050c200cffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0144

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

May also be shown as 806f050c200dffff or 0x806f050c200dffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0144

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

May also be shown as 806f050c200effff or 0x806f050c200effff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0144

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

May also be shown as 806f050c200fffff or 0x806f050c200fffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0144

User Response

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 Lenovo 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)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

May also be shown as 806f050c2010ffff or 0x806f050c2010ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Warning - Memory

SNMP Trap ID

CIM Information**Prefix:** PLAT ID: 0144**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 Lenovo 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)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Reached.

May also be shown as 806f050c2581ffff or 0x806f050c2581ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information**Prefix:** PLAT ID: 0144**User Response**

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 Lenovo 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)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0401ffff or 0x806f050d0401ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0402ffff : Array [ComputerSystemElementName] is in critical condition. (Computer HDD1)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0402ffff or 0x806f050d0402ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix: PLAT ID:** 0174**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
 2. Make sure that the SAS cable is connected correctly.
 3. Replace the SAS cable.
 4. Check backplane cable connection.
 5. Replace the RAID adapter.
 6. Replace the hard disk drive that is indicated by a lit status LED.
- **806f050d-0403ffff : Array [ComputerSystemElementName] is in critical condition. (Computer HDD2)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0403ffff or 0x806f050d0403ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix: PLAT ID:** 0174**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0404ffff : Array [ComputerSystemElementName] is in critical condition. (Computer HDD3)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0404ffff or 0x806f050d0404ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0405ffff : Array [ComputerSystemElementName] is in critical condition. (Computer HDD4)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0405ffff or 0x806f050d0405ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.

4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0406ffff : Array [ComputerSystemElementName] is in critical condition. (Computer HDD5)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0406ffff or 0x806f050d0406ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0407ffff : Array [ComputerSystemElementName] is in critical condition. (Computer HDD6)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0407ffff or 0x806f050d0407ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0408ffff : Array [ComputerSystemElementName] is in critical condition. (Computer HDD7)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0408ffff or 0x806f050d0408ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0409ffff : Array [ComputerSystemElementName] is in critical condition. (1U Storage HDD0)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0409ffff or 0x806f050d0409ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

• **806f050d-040affff : Array [ComputerSystemElementName] is in critical condition. (1U Storage HDD1)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d040affff or 0x806f050d040affff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

• **806f050d-040bffff : Array [ComputerSystemElementName] is in critical condition. (1U Storage HDD2)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d040bffff or 0x806f050d040bffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-040cffff : Array [ComputerSystemElementName] is in critical condition. (1U Storage HDD3)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d040cffff or 0x806f050d040cffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-040dffff : Array [ComputerSystemElementName] is in critical condition. (1U Storage HDD4)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d040dffff or 0x806f050d040dffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-040effff : Array [ComputerSystemElementName] is in critical condition. (1U Storage HDD5)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d040effff or 0x806f050d040effff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.

2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-040ffff : Array [ComputerSystemElementName] is in critical condition. (1U Storage HDD6)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d040ffff or 0x806f050d040ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0410ffff : Array [ComputerSystemElementName] is in critical condition. (1U Storage HDD7)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0410ffff or 0x806f050d0410ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

CIM Information**Prefix:** PLAT ID: 0174**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

SDHV Drive 1 :

- **806f050d-0411ffff : Array [ComputerSystemElementName] is in critical condition. (SDHV Drive 2)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0411ffff or 0x806f050d0411ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0174**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0412ffff : Array [ComputerSystemElementName] is in critical condition. (SDHV Drive 3)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0412ffff or 0x806f050d0412ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0413ffff : Array [ComputerSystemElementName] is in critical condition. (SDHV Drive 4)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0413ffff or 0x806f050d0413ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0414ffff : Array [ComputerSystemElementName] is in critical condition. (SDHV Drive 5)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0414ffff or 0x806f050d0414ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix: PLAT ID:** 0174**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
 2. Make sure that the SAS cable is connected correctly.
 3. Replace the SAS cable.
 4. Check backplane cable connection.
 5. Replace the RAID adapter.
 6. Replace the hard disk drive that is indicated by a lit status LED.
- **806f050d-0415ffff : Array [ComputerSystemElementName] is in critical condition. (SDHV Drive 6)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0415ffff or 0x806f050d0415ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix: PLAT ID:** 0174**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0416ffff : Array [ComputerSystemElementName] is in critical condition. (SDHV Drive 7)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0416ffff or 0x806f050d0416ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0417ffff : Array [ComputerSystemElementName] is in critical condition. (SDHV Drive 8)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0417ffff or 0x806f050d0417ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.

4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0418ffff : Array [ComputerSystemElementName] is in critical condition. (SDHV Drive 9)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0418ffff or 0x806f050d0418ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-0419ffff : Array [ComputerSystemElementName] is in critical condition. (SDHV Drive 10)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d0419ffff or 0x806f050d0419ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-041affff : Array [ComputerSystemElementName] is in critical condition. (SDHV Drive 11)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d041affff or 0x806f050d041affff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-041bffff : Array [ComputerSystemElementName] is in critical condition. (SDHV Drive 12)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d041bffff or 0x806f050d041bffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0174**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-041cffff : Array [ComputerSystemElementName] is in critical condition. (SDHV Drive 13)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d041cffff or 0x806f050d041cffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0174**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-041dffff : Array [ComputerSystemElementName] is in critical condition. (SDHV Drive 14)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d041dffff or 0x806f050d041dffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-041effff : Array [ComputerSystemElementName] is in critical condition. (SDHV Drive 15)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d041effff or 0x806f050d041effff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0174

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Check backplane cable connection.
5. Replace the RAID adapter.
6. Replace the hard disk drive that is indicated by a lit status LED.

- **806f050d-041fffff : Array [ComputerSystemElementName] is in critical condition. (SDHV Drive 16)**

This message is for the use case when an implementation has detected that an Array is Critical.

May also be shown as 806f050d041fffff or 0x806f050d041fffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix: PLAT ID:** 0174**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
 2. Make sure that the SAS cable is connected correctly.
 3. Replace the SAS cable.
 4. Check backplane cable connection.
 5. Replace the RAID adapter.
 6. Replace the hard disk drive that is indicated by a lit status LED.
- **806f0513-2582ffff : A PCI SERR has occurred on system [ComputerSystemElementName]. (PCIs)**

This message is for the use case when an implementation has detected a PCI SERR.

May also be shown as 806f05132582ffff or 0x806f05132582ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information**Prefix: PLAT ID:** 0234**User Response**

1. Check the PCI LED.
2. Reseat the affected adapters and riser card.
3. Update the server firmware (UEFI and IMM) and adapter firmware. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.

4. Make sure that the adapter is supported. For a list of supported optional devices, see <http://www.Lenovo.com/systems/info/x86servers/serverproven/compat/us/>.
5. Remove both adapters.
6. Replace the PCIe adapters.
7. Replace the riser card.

- **806f052b-2101ffff : Invalid or Unsupported firmware or software was detected on system [ComputerSystemElementName]. (IMM2 FW Failover)**

This message is for the use case when an implementation has detected an Invalid/Unsupported Firmware/Software Version.

May also be shown as 806f052b2101ffff or 0x806f052b2101ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0446

User Response

1. Make sure the server meets the minimum configuration to start (see Power-supply LEDs).
2. Recover the server firmware from the backup page by restarting the server.
3. Update the server firmware to the latest level (see Updating the firmware). Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
4. Remove components one at a time, restarting the server each time, to see if the problem goes away.
5. If the problem remains, (trained service technician) replace the system board.

- **806f0607-0301ffff : An SM BIOS Uncorrectable CPU complex error for [ProcessorElementName] has asserted. (CPU 1)**

This message is for the use case when an SM BIOS Uncorrectable CPU complex error has asserted.

May also be shown as 806f06070301ffff or 0x806f06070301ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - CPU

SNMP Trap ID

40

CIM Information

Prefix: PLAT ID: 0816

User Response

1. 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)**

This message is for the use case when an SM BIOS Uncorrectable CPU complex error has asserted.

May also be shown as 806f06070302ffff or 0x806f06070302ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - CPU

SNMP Trap ID

40

CIM Information

Prefix: PLAT ID: 0816

User Response

1. 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)**

This message is for the use case when an SM BIOS Uncorrectable CPU complex error has asserted.

May also be shown as 806f06072584ffff or 0x806f06072584ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - CPU

SNMP Trap ID

40

CIM Information

Prefix: PLAT ID: 0816

User Response

1. 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)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0401ffff or 0x806f060d0401ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0402ffff : Array [ComputerSystemElementName] has failed. (Computer HDD1)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0402ffff or 0x806f060d0402ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0403ffff : Array [ComputerSystemElementName] has failed. (Computer HDD2)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0403ffff or 0x806f060d0403ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0176**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0404ffff : Array [ComputerSystemElementName] has failed. (Computer HDD3)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0404ffff or 0x806f060d0404ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0176**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0405ffff : Array [ComputerSystemElementName] has failed. (Computer HDD4)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0405ffff or 0x806f060d0405ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0406ffff : Array [ComputerSystemElementName] has failed. (Computer HDD5)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0406ffff or 0x806f060d0406ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0407ffff : Array [ComputerSystemElementName] has failed. (Computer HDD6)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0407ffff or 0x806f060d0407ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
 2. Make sure that the SAS cable is connected correctly.
 3. Replace the SAS cable.
 4. Replace the RAID adapter.
 5. Replace the hard disk drive that is indicated by a lit status LED.
- **806f060d-0408ffff : Array [ComputerSystemElementName] has failed. (Computer HDD7)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0408ffff or 0x806f060d0408ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
 2. Make sure that the SAS cable is connected correctly.
 3. Replace the SAS cable.
 4. Replace the RAID adapter.
 5. Replace the hard disk drive that is indicated by a lit status LED.
- **806f060d-0409ffff : Array [ComputerSystemElementName] has failed. (1U Storage HDD0)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0409ffff or 0x806f060d0409ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-040affff : Array [ComputerSystemElementName] has failed. (1U Storage HDD1)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d040affff or 0x806f060d040affff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-040bffff : Array [ComputerSystemElementName] has failed. (1U Storage HDD2)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d040bffff or 0x806f060d040bffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
 2. Make sure that the SAS cable is connected correctly.
 3. Replace the SAS cable.
 4. Replace the RAID adapter.
 5. Replace the hard disk drive that is indicated by a lit status LED.
- **806f060d-040cffff : Array [ComputerSystemElementName] has failed. (1U Storage HDD3)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d040cffff or 0x806f060d040cffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
 2. Make sure that the SAS cable is connected correctly.
 3. Replace the SAS cable.
 4. Replace the RAID adapter.
 5. Replace the hard disk drive that is indicated by a lit status LED.
- **806f060d-040dffff : Array [ComputerSystemElementName] has failed. (1U Storage HDD4)**
- This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d040dffff or 0x806f060d040dffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

• **806f060d-040effff : Array [ComputerSystemElementName] has failed. (1U Storage HDD5)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d040effff or 0x806f060d040effff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

• **806f060d-040fffff : Array [ComputerSystemElementName] has failed. (1U Storage HDD6)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d040ffff or 0x806f060d040ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

• **806f060d-0410ffff : Array [ComputerSystemElementName] has failed. (1U Storage HDD7)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0410ffff or 0x806f060d0410ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

SDHV Drive 1 :

- **806f060d-0411ffff : Array [ComputerSystemElementName] has failed. (SDHV Drive 2)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0411ffff or 0x806f060d0411ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0412ffff : Array [ComputerSystemElementName] has failed. (SDHV Drive 3)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0412ffff or 0x806f060d0412ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.

3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0413ffff : Array [ComputerSystemElementName] has failed. (SDHV Drive 4)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0413ffff or 0x806f060d0413ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0414ffff : Array [ComputerSystemElementName] has failed. (SDHV Drive 5)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0414ffff or 0x806f060d0414ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0415ffff : Array [ComputerSystemElementName] has failed. (SDHV Drive 6)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0415ffff or 0x806f060d0415ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0416ffff : Array [ComputerSystemElementName] has failed. (SDHV Drive 7)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0416ffff or 0x806f060d0416ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0417ffff : Array [ComputerSystemElementName] has failed. (SDHV Drive 8)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0417ffff or 0x806f060d0417ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0418ffff : Array [ComputerSystemElementName] has failed. (SDHV Drive 9)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0418ffff or 0x806f060d0418ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-0419ffff : Array [ComputerSystemElementName] has failed. (SDHV Drive 10)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d0419ffff or 0x806f060d0419ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-041affff : Array [ComputerSystemElementName] has failed. (SDHV Drive 11)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d041affff or 0x806f060d041affff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0176**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-041bffff : Array [ComputerSystemElementName] has failed. (SDHV Drive 12)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d041bffff or 0x806f060d041bffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0176**User Response**

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-041cffff : Array [ComputerSystemElementName] has failed. (SDHV Drive 13)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d041cffff or 0x806f060d041cffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-041dffff : Array [ComputerSystemElementName] has failed. (SDHV Drive 14)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d041dffff or 0x806f060d041dffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
2. Make sure that the SAS cable is connected correctly.
3. Replace the SAS cable.
4. Replace the RAID adapter.
5. Replace the hard disk drive that is indicated by a lit status LED.

- **806f060d-041effff : Array [ComputerSystemElementName] has failed. (SDHV Drive 15)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d041effff or 0x806f060d041effff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
 2. Make sure that the SAS cable is connected correctly.
 3. Replace the SAS cable.
 4. Replace the RAID adapter.
 5. Replace the hard disk drive that is indicated by a lit status LED.
- **806f060d-041ffff : Array [ComputerSystemElementName] has failed. (SDHV Drive 16)**

This message is for the use case when an implementation has detected that an Array Failed.

May also be shown as 806f060d041ffff or 0x806f060d041ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0176

User Response

1. Make sure that the RAID adapter firmware and hard disk drive firmware are at the latest level.
 2. Make sure that the SAS cable is connected correctly.
 3. Replace the SAS cable.
 4. Replace the RAID adapter.
 5. Replace the hard disk drive that is indicated by a lit status LED.
- **806f070c-2001ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

May also be shown as 806f070c2001ffff or 0x806f070c2001ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0126

User Response

Make sure that DIMMs are installed and following the memory population chart in the system publication.

- **806f070c-2002ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 2)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

May also be shown as 806f070c2002ffff or 0x806f070c2002ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0126

User Response

Make sure that DIMMs are installed and following the memory population chart in the system publication.

- **806f070c-2003ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 3)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

May also be shown as 806f070c2003ffff or 0x806f070c2003ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0126

User Response

Make sure that DIMMs are installed and following the memory population chart in the system publication.

- **806f070c-2004ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 4)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

May also be shown as 806f070c2004ffff or 0x806f070c2004ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0126

User Response

Make sure that DIMMs are installed and following the memory population chart in the system publication.

- **806f070c-2005ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

May also be shown as 806f070c2005ffff or 0x806f070c2005ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0126

User Response

Make sure that DIMMs are installed and following the memory population chart in the system publication.

- **806f070c-2006ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 6)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

May also be shown as 806f070c2006ffff or 0x806f070c2006ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0126

User Response

Make sure that DIMMs are installed and following the memory population chart in the system publication.

- **806f070c-2007ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 7)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

May also be shown as 806f070c2007ffff or 0x806f070c2007ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0126

User Response

Make sure that DIMMs are installed and following the memory population chart in the system publication.

- **806f070c-2008ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 8)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

May also be shown as 806f070c2008ffff or 0x806f070c2008ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0126

User Response

Make sure that DIMMs are installed and following the memory population chart in the system publication.

- **806f070c-2009ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 9)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

May also be shown as 806f070c2009ffff or 0x806f070c2009ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0126

User Response

Make sure that DIMMs are installed and following the memory population chart in the system publication.

- **806f070c-200affff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 10)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

May also be shown as 806f070c200affff or 0x806f070c200affff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0126

User Response

Make sure that DIMMs are installed and following the memory population chart in the system publication.

- **806f070c-200bffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

May also be shown as 806f070c200bffff or 0x806f070c200bffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0126

User Response

Make sure that DIMMs are installed and following the memory population chart in the system publication.

- **806f070c-200cffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

May also be shown as 806f070c200cffff or 0x806f070c200cffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0126

User Response

Make sure that DIMMs are installed and following the memory population chart in the system publication.

- **806f070c-200dffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 13)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

May also be shown as 806f070c200dffff or 0x806f070c200dffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0126

User Response

Make sure that DIMMs are installed and following the memory population chart in the system publication.

- **806f070c-200effff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 14)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

May also be shown as 806f070c200effff or 0x806f070c200effff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0126

User Response

Make sure that DIMMs are installed and following the memory population chart in the system publication.

- **806f070c-200ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

May also be shown as 806f070c200fffff or 0x806f070c200fffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0126

User Response

Make sure that DIMMs are installed and following the memory population chart in the system publication.

- **806f070c-2010ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 16)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

May also be shown as 806f070c2010ffff or 0x806f070c2010ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0126

User Response

Make sure that DIMMs are installed and following the memory population chart in the system publication.

- **806f070c-2581ffff : Configuration Error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (All DIMMS)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has been corrected.

May also be shown as 806f070c2581ffff or 0x806f070c2581ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0126

User Response

Make sure that DIMMs are installed 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)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d0401ffff or 0x806f070d0401ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-0402ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Computer HDD1)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d0402ffff or 0x806f070d0402ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-0403ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Computer HDD2)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d0403ffff or 0x806f070d0403ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-0404ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Computer HDD3)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d0404ffff or 0x806f070d0404ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-0405ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Computer HDD4)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d0405ffff or 0x806f070d0405ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-0406ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Computer HDD5)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d0406ffff or 0x806f070d0406ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-0407ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Computer HDD6)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d0407ffff or 0x806f070d0407ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-0408ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (Computer HDD7)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d0408ffff or 0x806f070d0408ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-0409ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (1U Storage HDD0)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d0409ffff or 0x806f070d0409ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-040affff : Rebuild in progress for Array in system [ComputerSystemElementName]. (1U Storage HDD1)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d040affff or 0x806f070d040affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-040bffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (1U Storage HDD2)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d040bffff or 0x806f070d040bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-040cffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (1U Storage HDD3)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d040cffff or 0x806f070d040cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-040dffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (1U Storage HDD4)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d040dffff or 0x806f070d040dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-040effff : Rebuild in progress for Array in system [ComputerSystemElementName]. (1U Storage HDD5)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d040effff or 0x806f070d040effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-040ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (1U Storage HDD6)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d040ffff or 0x806f070d040ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-0410ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (1U Storage HDD7)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d0410ffff or 0x806f070d0410ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0178

User Response

No action; information only. SDHV Drive 1 :

- **806f070d-0411ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 2)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d0411ffff or 0x806f070d0411ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-0412ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 3)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d0412ffff or 0x806f070d0412ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-0413ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 4)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d0413ffff or 0x806f070d0413ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-0414ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 5)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d0414ffff or 0x806f070d0414ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-0415ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 6)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d0415ffff or 0x806f070d0415ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-0416ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 7)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d0416ffff or 0x806f070d0416ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-0417ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 8)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d0417ffff or 0x806f070d0417ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information****Prefix: PLAT ID:** 0178**User Response**

No action; information only.

- **806f070d-0418ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 9)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d0418ffff or 0x806f070d0418ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information****Prefix: PLAT ID:** 0178**User Response**

No action; information only.

- **806f070d-0419ffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 10)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d0419ffff or 0x806f070d0419ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-041affff : Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 11)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d041affff or 0x806f070d041affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-041bffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 12)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d041bffff or 0x806f070d041bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-041cffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 13)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d041cffff or 0x806f070d041cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-041dffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 14)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d041dffff or 0x806f070d041dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-041effff : Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 15)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d041effff or 0x806f070d041effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f070d-041fffff : Rebuild in progress for Array in system [ComputerSystemElementName]. (SDHV Drive 16)**

This message is for the use case when an implementation has detected that an Array Rebuild is in Progress.

May also be shown as 806f070d041fffff or 0x806f070d041fffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0178

User Response

No action; information only.

- **806f072b-2101ffff : A successful software or firmware change was detected on system [ComputerSystemElementName]. (IMM Promotion)**

This message is for the use case when an implementation has detected a Successful Software or Firmware Change.

May also be shown as 806f072b2101ffff or 0x806f072b2101ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0450

User Response

No action; information only. IMM Recovery :

- **806f072b-2201ffff : A successful software or firmware change was detected on system [ComputerSystemElementName]. (Bkup Auto Update)**

This message is for the use case when an implementation has detected a Successful Software or Firmware Change.

May also be shown as 806f072b2201ffff or 0x806f072b2201ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0450

User Response

No action; information only. ROM Recovery :

- **806f0807-0301ffff : [ProcessorElementName] has been Disabled. (CPU 1)**

This message is for the use case when an implementation has detected a Processor has been Disabled.

May also be shown as 806f08070301ffff or 0x806f08070301ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0061

User Response

No action; information only.

- **806f0807-0302ffff : [ProcessorElementName] has been Disabled. (CPU 2)**

This message is for the use case when an implementation has detected a Processor has been Disabled.

May also be shown as 806f08070302ffff or 0x806f08070302ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0061

User Response

No action; information only.

- **806f0807-2584ffff : [ProcessorElementName] has been Disabled. (All CPUs)**

This message is for the use case when an implementation has detected a Processor has been Disabled.

May also be shown as 806f08072584ffff or 0x806f08072584ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0061

User Response

No action; information only. One of the CPUs :

- **806f0813-2581ffff : An Uncorrectable Error has occurred on [SensorElementName]. (DIMMs)**

This message is for the use case when an implementation has detected a Bus Uncorrectable Error.

May also be shown as 806f08132581ffff or 0x806f08132581ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0240

User Response

1. Check the system-event log.
 2. (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 : An Uncorrectable Error has occurred on [SensorElementName]. (PCIs)**

This message is for the use case when an implementation has detected a Bus Uncorrectable Error.

May also be shown as 806f08132582ffff or 0x806f08132582ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0240

User Response

1. Check the system-event log.
2. (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 : An Uncorrectable Error has occurred on [SensorElementName]. (CPUs)**

This message is for the use case when an implementation has detected a Bus Uncorrectable Error.

May also be shown as 806f08132584ffff or 0x806f08132584ffff

Severity

Error

Serviceable

Yes

Automatically notify support

Yes

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0240

User Response

1. Check the system-event log.
2. (Trained technician only) Remove the failing microprocessor from the system board (see Removing a microprocessor and heat sink).
3. Check for a server firmware update. Important: Some cluster solutions require specific code levels or coordinated code updates. If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before you update the code.
4. Make sure that the two microprocessors are matching.
5. (Trained technician only) Replace the system board.

- **806f0823-2101ffff : Watchdog Timer interrupt occurred for [WatchdogElementName]. (IPMI Watchdog)**

This message is for the use case when an implementation has detected a Watchdog Timer interrupt occurred.

May also be shown as 806f08232101ffff or 0x806f08232101ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information****Prefix:** PLAT ID: 0376**User Response**

No action; information only.

- **806f090c-2001ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 1)**

This message is for the use case when an implementation has detected Memory has been Throttled.

May also be shown as 806f090c2001ffff or 0x806f090c2001ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

22

CIM Information**Prefix:** PLAT ID: 0142**User Response**

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-2002ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 2)**

This message is for the use case when an implementation has detected Memory has been Throttled.

May also be shown as 806f090c2002ffff or 0x806f090c2002ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

22

CIM Information

Prefix: PLAT ID: 0142

User Response

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-2003ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 3)**

This message is for the use case when an implementation has detected Memory has been Throttled.

May also be shown as 806f090c2003ffff or 0x806f090c2003ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

22

CIM Information

Prefix: PLAT ID: 0142

User Response

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-2004ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 4)**

This message is for the use case when an implementation has detected Memory has been Throttled.

May also be shown as 806f090c2004ffff or 0x806f090c2004ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information**Prefix:** PLAT ID: 0142**User Response**

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-2005ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 5)**

This message is for the use case when an implementation has detected Memory has been Throttled.

May also be shown as 806f090c2005ffff or 0x806f090c2005ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

22

CIM Information**Prefix:** PLAT ID: 0142**User Response**

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-2006ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 6)**

This message is for the use case when an implementation has detected Memory has been Throttled.

May also be shown as 806f090c2006ffff or 0x806f090c2006ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

22

CIM Information**Prefix:** PLAT ID: 0142

User Response

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-2007ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 7)**

This message is for the use case when an implementation has detected Memory has been Throttled.

May also be shown as 806f090c2007ffff or 0x806f090c2007ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

22

CIM Information

Prefix: PLAT ID: 0142

User Response

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-2008ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 8)**

This message is for the use case when an implementation has detected Memory has been Throttled.

May also be shown as 806f090c2008ffff or 0x806f090c2008ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

22

CIM Information

Prefix: PLAT ID: 0142

User Response

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-2009ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 9)**

This message is for the use case when an implementation has detected Memory has been Throttled.

May also be shown as 806f090c2009ffff or 0x806f090c2009ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

22

CIM Information

Prefix: PLAT ID: 0142

User Response

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-200affff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 10)**

This message is for the use case when an implementation has detected Memory has been Throttled.

May also be shown as 806f090c200affff or 0x806f090c200affff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

22

CIM Information

Prefix: PLAT ID: 0142

User Response

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-200bffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 11)**

This message is for the use case when an implementation has detected Memory has been Throttled.

May also be shown as 806f090c200bffff or 0x806f090c200bffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

22

CIM Information

Prefix: PLAT ID: 0142

User Response

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-200cffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 12)**

This message is for the use case when an implementation has detected Memory has been Throttled.

May also be shown as 806f090c200cffff or 0x806f090c200cffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

22

CIM Information

Prefix: PLAT ID: 0142

User Response

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-200dffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 13)**

This message is for the use case when an implementation has detected Memory has been Throttled.

May also be shown as 806f090c200dffff or 0x806f090c200dffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

22

CIM Information**Prefix: PLAT ID:** 0142**User Response**

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-200efff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 14)**

This message is for the use case when an implementation has detected Memory has been Throttled.

May also be shown as 806f090c200efff or 0x806f090c200efff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

22

CIM Information**Prefix: PLAT ID:** 0142**User Response**

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

- **806f090c-200ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 15)**

This message is for the use case when an implementation has detected Memory has been Throttled.

May also be shown as 806f090c200ffff or 0x806f090c200ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

22

CIM Information

Prefix: PLAT ID: 0142

User Response

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

• **806f090c-2010ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] Throttled. (DIMM 16)**

This message is for the use case when an implementation has detected Memory has been Throttled.

May also be shown as 806f090c2010ffff or 0x806f090c2010ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

22

CIM Information

Prefix: PLAT ID: 0142

User Response

1. Reseat the DIMM, and then restart the server.
2. Replace DIMM n. (n = DIMM number)

• **806f0a07-0301ffff : [ProcessorElementName] is operating in a Degraded State. (CPU 1)**

This message is for the use case when an implementation has detected a Processor is running in the Degraded state.

May also be shown as 806f0a070301ffff or 0x806f0a070301ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

Warning - CPU

SNMP Trap ID

42

CIM Information**Prefix:** PLAT ID: 0038**User Response**

1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Check the ambient temperature. You must be operating within the specifications.
3. Make sure that the heat sink for microprocessor n is installed correctly.
4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

- **806f0a07-0302ffff : [ProcessorElementName] is operating in a Degraded State. (CPU 2)**

This message is for the use case when an implementation has detected a Processor is running in the Degraded state.

May also be shown as 806f0a070302ffff or 0x806f0a070302ffff

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Alert Category

Warning - CPU

SNMP Trap ID

42

CIM Information**Prefix:** PLAT ID: 0038**User Response**

1. Make sure that the fans are operating, that there are no obstructions to the airflow (front and rear of the server), that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Check the ambient temperature. You must be operating within the specifications.
3. Make sure that the heat sink for microprocessor n is installed correctly.
4. (Trained technician only) Replace microprocessor n. (n = microprocessor number)

- **806f0a0c-2001ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

May also be shown as 806f0a0c2001ffff or 0x806f0a0c2001ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0146

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2002ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 2)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

May also be shown as 806f0a0c2002ffff or 0x806f0a0c2002ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0146

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2003ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 3)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

May also be shown as 806f0a0c2003ffff or 0x806f0a0c2003ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0146

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
 2. Make sure that ambient temperature is within the specifications.
 3. If a fan has failed, complete the action for a fan failure.
 4. Replace DIMM n. (n = DIMM number)
- **806f0a0c-2004ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 4)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

May also be shown as 806f0a0c2004ffff or 0x806f0a0c2004ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0146

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.

2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2005ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

May also be shown as 806f0a0c2005ffff or 0x806f0a0c2005ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0146

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2006ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 6)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

May also be shown as 806f0a0c2006ffff or 0x806f0a0c2006ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0146

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
 2. Make sure that ambient temperature is within the specifications.
 3. If a fan has failed, complete the action for a fan failure.
 4. Replace DIMM n. (n = DIMM number)
- **806f0a0c-2007ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 7)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

May also be shown as 806f0a0c2007ffff or 0x806f0a0c2007ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0146

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
 2. Make sure that ambient temperature is within the specifications.
 3. If a fan has failed, complete the action for a fan failure.
 4. Replace DIMM n. (n = DIMM number)
- **806f0a0c-2008ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 8)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

May also be shown as 806f0a0c2008ffff or 0x806f0a0c2008ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0146

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2009ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 9)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

May also be shown as 806f0a0c2009ffff or 0x806f0a0c2009ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0146

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-200affff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 10)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

May also be shown as 806f0a0c200affff or 0x806f0a0c200affff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0146

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
 2. Make sure that ambient temperature is within the specifications.
 3. If a fan has failed, complete the action for a fan failure.
 4. Replace DIMM n. (n = DIMM number)
- **806f0a0c-200bffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

May also be shown as 806f0a0c200bffff or 0x806f0a0c200bffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0146

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Make sure that ambient temperature is within the specifications.

3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-200cffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

May also be shown as 806f0a0c200cffff or 0x806f0a0c200cffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0146

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-200dffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 13)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

May also be shown as 806f0a0c200dffff or 0x806f0a0c200dffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0146

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
 2. Make sure that ambient temperature is within the specifications.
 3. If a fan has failed, complete the action for a fan failure.
 4. Replace DIMM n. (n = DIMM number)
- **806f0a0c-200effff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 14)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

May also be shown as 806f0a0c200effff or 0x806f0a0c200effff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0146

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
 2. Make sure that ambient temperature is within the specifications.
 3. If a fan has failed, complete the action for a fan failure.
 4. Replace DIMM n. (n = DIMM number)
- **806f0a0c-200fffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

May also be shown as 806f0a0c200fffff or 0x806f0a0c200fffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0146

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a0c-2010ffff : An Over-Temperature Condition has been detected on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 16)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Detected.

May also be shown as 806f0a0c2010ffff or 0x806f0a0c2010ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0146

User Response

1. Make sure that the fans are operating, that there are no obstructions to the airflow, that the air baffles are in place and correctly installed, and that the server cover is installed and completely closed.
2. Make sure that ambient temperature is within the specifications.
3. If a fan has failed, complete the action for a fan failure.
4. Replace DIMM n. (n = DIMM number)

- **806f0a13-0301ffff : A Fatal Bus Error has occurred on bus [SensorElementName]. (CPU 1 PECI)**

This message is for the use case when an implementation has detected a Bus Fatal Error.

May also be shown as 806f0a130301ffff or 0x806f0a130301ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information**Prefix: PLAT ID:** 0244**User Response**

1. (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 bus [SensorElementName]. (CPU 2 PECI)**

This message is for the use case when an implementation has detected a Bus Fatal Error.

May also be shown as 806f0a130302ffff or 0x806f0a130302ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information**Prefix: PLAT ID:** 0244**User Response**

1. (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)**

This message is for the use case when an implementation has detected a Lower Non-critical sensor going low has deasserted.

May also be shown as 810100020701ffff or 0x810100020701ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Voltage

SNMP Trap ID

13

CIM Information

Prefix: PLAT ID: 0477

User Response

No action; information only.

- **81010202-0701ffff : Numeric sensor [NumericSensorElementName] going low (lower critical) has deasserted. (CMOS Battery)**

This message is for the use case when an implementation has detected a Lower Critical sensor going low has deasserted.

May also be shown as 810102020701ffff or 0x810102020701ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Voltage

SNMP Trap ID

1

CIM Information

Prefix: PLAT ID: 0481

User Response

No action; information only. SysBrd 12V : SysBrd 3.3V : SysBrd 5V :

- **81010701-2d01ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (PCH Temp)**

This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

May also be shown as 810107012d01ffff or 0x810107012d01ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Temperature

SNMP Trap ID

12

CIM Information

Prefix: PLAT ID: 0491

User Response

No action; information only.

- **81010701-3701ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (Ambient Temp)**

This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

May also be shown as 810107013701ffff or 0x810107013701ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Temperature

SNMP Trap ID

12

CIM Information

Prefix: PLAT ID: 0491

User Response

No action; information only.

- **81010701-3702ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (PIB Ambient Temp)**

This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

May also be shown as 810107013702ffff or 0x810107013702ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Temperature

SNMP Trap ID

12

CIM Information

Prefix: PLAT ID: 0491

User Response

No action; information only.

- **81010701-3703ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (HDD Inlet Temp)**

This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

May also be shown as 810107013703ffff or 0x810107013703ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Temperature

SNMP Trap ID

12

CIM Information

Prefix: PLAT ID: 0491

User Response

No action; information only.

- **81010701-3704ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (PCI Riser 1 Temp)**

This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

May also be shown as 810107013704ffff or 0x810107013704ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Temperature

SNMP Trap ID

12

CIM Information

Prefix: PLAT ID: 0491

User Response

No action; information only.

- **81010701-3705ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (PCI Riser 2 Temp)**

This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

May also be shown as 810107013705ffff or 0x810107013705ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Temperature

SNMP Trap ID

12

CIM Information

Prefix: PLAT ID: 0491

User Response

No action; information only.

- **81010701-3706ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (GPU Outlet Temp)**

This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

May also be shown as 810107013706ffff or 0x810107013706ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Temperature

SNMP Trap ID

12

CIM Information

Prefix: PLAT ID: 0491

User Response

No action; information only.

- **81010701-3707ffff : Numeric sensor [NumericSensorElementName] going high (upper non-critical) has deasserted. (HDD Outlet Temp)**

This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

May also be shown as 810107013707ffff or 0x810107013707ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Temperature

SNMP Trap ID

12

CIM Information

Prefix: PLAT ID: 0491

User Response

No action; information only.

- **81010901-2d01ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (PCH Temp)**

This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

May also be shown as 810109012d01ffff or 0x810109012d01ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0495

User Response

No action; information only.

- **81010901-3701ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (Ambient Temp)**

This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

May also be shown as 810109013701ffff or 0x810109013701ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0495

User Response

No action; information only.

- **81010901-3702ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (PIB Ambient Temp)**

This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

May also be shown as 810109013702ffff or 0x810109013702ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0495

User Response

No action; information only.

- **81010901-3703ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (HDD Inlet Temp)**

This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

May also be shown as 810109013703ffff or 0x810109013703ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0495

User Response

No action; information only.

- **81010901-3704ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (PCI Riser 1 Temp)**

This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

May also be shown as 810109013704ffff or 0x810109013704ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0495

User Response

No action; information only.

- **81010901-3705ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (PCI Riser 2 Temp)**

This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

May also be shown as 810109013705ffff or 0x810109013705ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0495

User Response

No action; information only.

- **81010901-3706ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (GPU Outlet Temp)**

This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

May also be shown as 810109013706ffff or 0x810109013706ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0495

User Response

No action; information only.

- **81010901-3707ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (HDD Outlet Temp)**

This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

May also be shown as 810109013707ffff or 0x810109013707ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0495

User Response

No action; information only.

- **81010902-0701ffff : Numeric sensor [NumericSensorElementName] going high (upper critical) has deasserted. (SysBrd 12V)**

This message is for the use case when an implementation has detected an Upper Critical sensor going high has deasserted.

May also be shown as 810109020701ffff or 0x810109020701ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Voltage

SNMP Trap ID

1

CIM Information

Prefix: PLAT ID: 0495

User Response

No action; information only. SysBrd 3.3V : SysBrd 5V :

- **81010b01-2d01ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (PCH Temp)**

This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

May also be shown as 81010b012d01ffff or 0x81010b012d01ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0499

User Response

No action; information only.

- **81010b01-3701ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (Ambient Temp)**

This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

May also be shown as 81010b013701ffff or 0x81010b013701ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0499

User Response

No action; information only.

- **81010b01-3702ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (PIB Ambient Temp)**

This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

May also be shown as 81010b013702ffff or 0x81010b013702ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0499

User Response

No action; information only.

- **81010b01-3703ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (HDD Inlet Temp)**

This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

May also be shown as 81010b013703ffff or 0x81010b013703ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0499

User Response

No action; information only.

- **81010b01-3704ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (PCI Riser 1 Temp)**

This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

May also be shown as 81010b013704ffff or 0x81010b013704ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0499

User Response

No action; information only.

- **81010b01-3705ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (PCI Riser 2 Temp)**

This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

May also be shown as 81010b013705ffff or 0x81010b013705ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0499

User Response

No action; information only.

- **81010b01-3706ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (GPU Outlet Temp)**

This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

May also be shown as 81010b013706ffff or 0x81010b013706ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0499

User Response

No action; information only.

- **81010b01-3707ffff : Numeric sensor [NumericSensorElementName] going high (upper non-recoverable) has deasserted. (HDD Outlet Temp)**

This message is for the use case when an implementation has detected an Upper Non-recoverable sensor going high has deasserted.

May also be shown as 81010b013707ffff or 0x81010b013707ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0499

User Response

No action; information only.

- **81030006-2101ffff : Sensor [SensorElementName] has asserted. (Sig Verify Fail)**

This message is for the use case when an implementation has detected a Sensor has asserted.

May also be shown as 810300062101ffff or 0x810300062101ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0508

User Response

No action; information only.

- **81030012-2301ffff : Sensor [SensorElementName] has asserted. (OS RealTime Mod)**

This message is for the use case when an implementation has detected a Sensor has asserted.

May also be shown as 810300122301ffff or 0x810300122301ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0508

User Response

No action; information only.

- **81030021-0782ffff : Sensor [SensorElementName] has asserted. (PCIe Dev LK Down)**

This message is for the use case when an implementation has detected a Sensor has asserted.

May also be shown as 810300210782ffff or 0x810300210782ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0508

User Response

No action; information only.

- **8103010c-2581ffff : Sensor [SensorElementName] has deasserted. (Non-Auth DIMMs)**

This message is for the use case when an implementation has detected a Sensor has deasserted.

May also be shown as 8103010c2581ffff or 0x8103010c2581ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0509

User Response

No action; information only.

- **8103010d-2b81ffff : Sensor [SensorElementName] has deasserted. (FDIMM Config)**

This message is for the use case when an implementation has detected a Sensor has deasserted.

May also be shown as 8103010d2b81ffff or 0x8103010d2b81ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0509

User Response

No action; information only.

- **81030112-0601ffff : Sensor [SensorElementName] has deasserted. (SMM Mode)**

This message is for the use case when an implementation has detected a Sensor has deasserted.

May also be shown as 810301120601ffff or 0x810301120601ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0509

User Response

No action; information only. SMM Monitor :

- **81030121-0782ffff : Sensor [SensorElementName] has deasserted. (PCIe Dev LK Down)**

This message is for the use case when an implementation has detected a Sensor has deasserted.

May also be shown as 810301210782ffff or 0x810301210782ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0509

User Response

No action; information only.

- **8105010d-2b81ffff : Sensor [SensorElementName] has indicated limit no longer exceeded. (FDIMM TempLimit)**

This message is for the use case when an implementation has detected a Sensor limit is no longer exceeded.

May also be shown as 8105010d2b81ffff or 0x8105010d2b81ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0513

User Response

No action; information only.

- **8107010d-0b01ffff : Sensor [SensorElementName] has deasserted the transition from normal to non-critical state. (RAID #1 Volume)**

This message is for the use case when an implementation has detected that a Sensor has deasserted a transition to non-critical from normal.

May also be shown as 8107010d0b01ffff or 0x8107010d0b01ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Other

SNMP Trap ID

60

CIM Information

Prefix: PLAT ID: 0521

User Response

No action; information only.

- **8107010d-0b07ffff : Sensor [SensorElementName] has deasserted the transition from normal to non-critical state. (RAID #7 Volume)**

This message is for the use case when an implementation has detected that a Sensor has deasserted a transition to non-critical from normal.

May also be shown as 8107010d0b07ffff or 0x8107010d0b07ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Other

SNMP Trap ID

60

CIM Information

Prefix: PLAT ID: 0521

User Response

No action; information only.

- **8107010d-2b81ffff : Sensor [SensorElementName] has deasserted the transition from normal to non-critical state. (FDIMM Warranty)**

This message is for the use case when an implementation has detected that a Sensor has deasserted a transition to non-critical from normal.

May also be shown as 8107010d2b81ffff or 0x8107010d2b81ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Other

SNMP Trap ID

60

CIM Information

Prefix: PLAT ID: 0521

User Response

No action; information only.

- **8107010f-2201ffff : Sensor [SensorElementName] has deasserted the transition from normal to non-critical state. (GPT Status)**

This message is for the use case when an implementation has detected that a Sensor has deasserted a transition to non-critical from normal.

May also be shown as 8107010f2201ffff or 0x8107010f2201ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Other

SNMP Trap ID

60

CIM Information

Prefix: PLAT ID: 0521

User Response

No action; information only.

- **8107010f-2582ffff : Sensor [SensorElementName] has deasserted the transition from normal to non-critical state. (I/O Resources)**

This message is for the use case when an implementation has detected that a Sensor has deasserted a transition to non-critical from normal.

May also be shown as 8107010f2582ffff or 0x8107010f2582ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Other

SNMP Trap ID

60

CIM Information

Prefix: PLAT ID: 0521

User Response

No action; information only.

- **81070128-2e01ffff : Sensor [SensorElementName] has deasserted the transition from normal to non-critical state. (ME Recovery)**

This message is for the use case when an implementation has detected that a Sensor has deasserted a transition to non-critical from normal.

May also be shown as 810701282e01ffff or 0x810701282e01ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Other

SNMP Trap ID

60

CIM Information

Prefix: PLAT ID: 0521

User Response

No action; information only.

- **81070201-0301ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (CPU 1 OverTemp)**

This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

May also be shown as 810702010301ffff or 0x810702010301ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0523

User Response

No action; information only. CPU1 VR OverTemp :

- **81070201-0302ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (CPU 2 OverTemp)**

This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

May also be shown as 810702010302ffff or 0x810702010302ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0523

User Response

No action; information only. CPU2 VR OverTemp :

- **81070201-1101ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (PCI 1 Temp)**

This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

May also be shown as 810702011101ffff or 0x810702011101ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0523

User Response

No action; information only.

- **81070201-1102ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (PCI 2 Temp)**

This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

May also be shown as 810702011102ffff or 0x810702011102ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0523

User Response

No action; information only.

- **81070201-1103ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (PCI 3 Temp)**

This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

May also be shown as 810702011103ffff or 0x810702011103ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0523

User Response

No action; information only.

- **81070201-1104ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (PCI 4 Temp)**

This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

May also be shown as 810702011104ffff or 0x810702011104ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0523

User Response

No action; information only.

- **81070201-2c01ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (Exlom Temp)**

This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

May also be shown as 810702012c01ffff or 0x810702012c01ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0523

User Response

No action; information only.

- **81070202-0701ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (SysBrd Vol Fault)**

This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

May also be shown as 810702020701ffff or 0x810702020701ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Voltage

SNMP Trap ID

1

CIM Information

Prefix: PLAT ID: 0523

User Response

No action; information only.

- **81070202-1501ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (PIB Fault)**

This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

May also be shown as 810702021501ffff or 0x810702021501ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Voltage

SNMP Trap ID

1

CIM Information

Prefix: PLAT ID: 0523

User Response

No action; information only.

- **81070202-1502ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (PDB Fault)**

This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

May also be shown as 810702021502ffff or 0x810702021502ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Voltage

SNMP Trap ID

1

CIM Information

Prefix: PLAT ID: 0523

User Response

No action; information only.

- **8107020d-0b01ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (RAID #1 Volume)**

This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

May also be shown as 8107020d0b01ffff or 0x8107020d0b01ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0523

User Response

No action; information only.

- **8107020d-0b07ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (RAID #7 Volume)**

This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

May also be shown as 8107020d0b07ffff or 0x8107020d0b07ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0523

User Response

No action; information only.

- **8107020d-2b81ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (FDIMM Warranty)**

This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

May also be shown as 8107020d2b81ffff or 0x8107020d2b81ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0523

User Response

No action; information only.

- **8107020f-2201ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (TXT ACM Module)**

This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

May also be shown as 8107020f2201ffff or 0x8107020f2201ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0523

User Response

No action; information only.

- **8107020f-2582ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (I/O Resources)**

This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

May also be shown as 8107020f2582ffff or 0x8107020f2582ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0523

User Response

No action; information only.

- **81070214-2201ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (TPM Lock)**

This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

May also be shown as 810702142201ffff or 0x810702142201ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0523

User Response

No action; information only.

- **81070219-0701ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (SysBrd Fault)**

This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

May also be shown as 810702190701ffff or 0x810702190701ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0523

User Response

No action; information only.

- **8107021b-0301ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (CPU 1 QPILinkErr)**

This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

May also be shown as 8107021b0301ffff or 0x8107021b0301ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0523

User Response

No action; information only.

- **8107021b-0302ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (CPU 2 QPILinkErr)**

This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

May also be shown as 8107021b0302ffff or 0x8107021b0302ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0523

User Response

No action; information only.

- **81070228-2e01ffff : Sensor [SensorElementName] has transitioned to a less severe state from critical. (ME Error)**

This message is for the use case when an implementation has detected a Sensor transition to less severe from critical.

May also be shown as 810702282e01ffff or 0x810702282e01ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0523

User Response

No action; information only. ME Flash Error :

- **81070301-0301ffff : Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (CPU 1 OverTemp)**

This message is for the use case when an implementation has detected that the Sensor transition to non-recoverable from less severe has deasserted.

May also be shown as 810703010301ffff or 0x810703010301ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0525

User Response

No action; information only. CPU1 VR OverTemp :

- **81070301-0302ffff : Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (CPU 2 OverTemp)**

This message is for the use case when an implementation has detected that the Sensor transition to non-recoverable from less severe has deasserted.

May also be shown as 810703010302ffff or 0x810703010302ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0525

User Response

No action; information only. CPU2 VR OverTemp :

- **81070301-1101ffff : Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (PCI 1 Temp)**

This message is for the use case when an implementation has detected that the Sensor transition to non-recoverable from less severe has deasserted.

May also be shown as 810703011101ffff or 0x810703011101ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0525

User Response

No action; information only.

- **81070301-1102ffff : Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (PCI 2 Temp)**

This message is for the use case when an implementation has detected that the Sensor transition to non-recoverable from less severe has deasserted.

May also be shown as 810703011102ffff or 0x810703011102ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0525

User Response

No action; information only.

- **81070301-1103ffff : Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (PCI 3 Temp)**

This message is for the use case when an implementation has detected that the Sensor transition to non-recoverable from less severe has deasserted.

May also be shown as 810703011103ffff or 0x810703011103ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0525

User Response

No action; information only.

- **81070301-1104ffff : Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (PCI 4 Temp)**

This message is for the use case when an implementation has detected that the Sensor transition to non-recoverable from less severe has deasserted.

May also be shown as 810703011104ffff or 0x810703011104ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0525

User Response

No action; information only.

- **81070301-2c01ffff : Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (Exlom Temp)**

This message is for the use case when an implementation has detected that the Sensor transition to non-recoverable from less severe has deasserted.

May also be shown as 810703012c01ffff or 0x810703012c01ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0525

User Response

No action; information only.

- **8107030d-0b01ffff : Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (RAID #1 Volume)**

This message is for the use case when an implementation has detected that the Sensor transition to non-recoverable from less severe has deasserted.

May also be shown as 8107030d0b01ffff or 0x8107030d0b01ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0525

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)**

This message is for the use case when an implementation has detected that the Sensor transition to non-recoverable from less severe has deasserted.

May also be shown as 8107030d0b07ffff or 0x8107030d0b07ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0525

User Response

No action; information only.

- **8107030d-2b81ffff : Sensor [SensorElementName] has deasserted the transition to non-recoverable from a less severe state. (FDIMM Warranty)**

This message is for the use case when an implementation has detected that the Sensor transition to non-recoverable from less severe has deasserted.

May also be shown as 8107030d2b81ffff or 0x8107030d2b81ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0525

User Response

No action; information only.

- **810b010c-2581ffff : Redundancy Lost for [RedundancySetElementName] has deasserted. (Backup Memory)**

This message is for the use case when Redundancy Lost has deasserted.

May also be shown as 810b010c2581ffff or 0x810b010c2581ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0803

User Response

No action; information only.

- **810b030c-2581ffff : Non-redundant:Sufficient Resources from Redundancy Degraded or Fully Redundant for [RedundancySetElementName] has deasserted. (Backup Memory)**

This message is for the use case when a Redundancy Set has transitioned from Non-redundant:Sufficient Resources.

May also be shown as 810b030c2581ffff or 0x810b030c2581ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0807

User Response

No action; information only.

- **810b050c-2581ffff : Non-redundant:Insufficient Resources for [RedundancySetElementName] has deasserted. (Backup Memory)**

This message is for the use case when a Redundancy Set has transitioned from Non-redundant: Insufficient Resources.

May also be shown as 810b050c2581ffff or 0x810b050c2581ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information**Prefix:** PLAT ID: 0811**User Response**

No action; information only.

- **816f0007-0301ffff : [ProcessorElementName] has Recovered from IERR. (CPU 1)**

This message is for the use case when an implementation has detected a Processor Recovered - IERR Condition.

May also be shown as 816f00070301ffff or 0x816f00070301ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - CPU

SNMP Trap ID

40

CIM Information**Prefix:** PLAT ID: 0043**User Response**

No action; information only.

- **816f0007-0302ffff : [ProcessorElementName] has Recovered from IERR. (CPU 2)**

This message is for the use case when an implementation has detected a Processor Recovered - IERR Condition.

May also be shown as 816f00070302ffff or 0x816f00070302ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - CPU

SNMP Trap ID

40

CIM Information**Prefix:** PLAT ID: 0043**User Response**

No action; information only.

- **816f0009-1301ffff : [PowerSupplyElementName] has been turned on. (Host Power)**

This message is for the use case when an implementation has detected a Power Unit that has been Enabled.

May also be shown as 816f00091301ffff or 0x816f00091301ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Power On

SNMP Trap ID

24

CIM Information

Prefix: PLAT ID: 0107

User Response

No action; information only.

- **816f000d-0401ffff : The [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Comput HDD0 Pres)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d0401ffff or 0x816f000d0401ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Comput HDD1 Pres)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d0402ffff or 0x816f000d0402ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Comput HDD2 Pres)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d0403ffff or 0x816f000d0403ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.

2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Comput HDD3 Pres)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d0404ffff or 0x816f000d0404ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Comput HDD4 Pres)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d0405ffff or 0x816f000d0405ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Comput HDD5 Pres)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d0406ffff or 0x816f000d0406ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Comput HDD6 Pres)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d0407ffff or 0x816f000d0407ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (Comput HDD7 Pres)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d0408ffff or 0x816f000d0408ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (1U Stg HDD0 Pres)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d0409ffff or 0x816f000d0409ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
 2. 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-040afff : The [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (1U Stg HDD1 Pres)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d040afff or 0x816f000d040afff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
 2. 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-040bfff : The [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (1U Stg HDD2 Pres)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d040bffff or 0x816f000d040bffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
 2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (1U Stg HDD3 Pres)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d040cffff or 0x816f000d040cffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (1U Stg HDD4 Pres)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d040dffff or 0x816f000d040dffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (1U Stg HDD5 Pres)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d040effff or 0x816f000d040effff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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-040ffff : The [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (1U Stg HDD6 Pres)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d040ffff or 0x816f000d040ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (1U Stg HDD7 Pres)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d0410ffff or 0x816f000d0410ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0163**User Response**

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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.

SDHV Drive 1 :

- **816f000d-0411ffff : The [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 2)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d0411ffff or 0x816f000d0411ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0163**User Response**

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 3)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d0412ffff or 0x816f000d0412ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
 2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 4)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d0413ffff or 0x816f000d0413ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
 2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 5)**

This message is for the use case when an implementation has detected a Drive has been Removed.
May also be shown as 816f000d0414ffff or 0x816f000d0414ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
 2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 6)**

This message is for the use case when an implementation has detected a Drive has been Removed.
May also be shown as 816f000d0415ffff or 0x816f000d0415ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 7)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d0416ffff or 0x816f000d0416ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 8)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d0417ffff or 0x816f000d0417ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 9)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d0418ffff or 0x816f000d0418ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 10)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d0419ffff or 0x816f000d0419ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix: PLAT ID:** 0163**User Response**

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 11)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d041affff or 0x816f000d041affff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix: PLAT ID:** 0163**User Response**

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 12)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d041bffff or 0x816f000d041bffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 13)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d041cffff or 0x816f000d041cffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 14)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d041dffff or 0x816f000d041dffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
 2. 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 [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 15)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d041effff or 0x816f000d041effff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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-041ffff : The [StorageVolumeElementName] has been removed from unit [PhysicalPackageElementName]. (SDHV Drive 16)**

This message is for the use case when an implementation has detected a Drive has been Removed.

May also be shown as 816f000d041ffff or 0x816f000d041ffff

Severity

Error

Serviceable

Yes

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0163

User Response

1. Reseat hard disk drive n.(n = hard disk drive number). Wait 1 minute or more before reinstalling the drive.
2. 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)**

This message is for the use case when an implementation has detected that Post Error has deasserted.

May also be shown as 816f000f2201ffff or 0x816f000f2201ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0185

User Response

No action; information only. Firmware Error : Sys Boot Status :

- **816f0013-1701ffff : System [ComputerSystemElementName] has recovered from a diagnostic interrupt. (NMI State)**

This message is for the use case when an implementation has detected a recovery from a Front Panel NMI / Diagnostic Interrupt

May also be shown as 816f00131701ffff or 0x816f00131701ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0223

User Response

No action; information only.

- **816f0021-2201ffff : Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (No Op ROM Space)**

This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

May also be shown as 816f00212201ffff or 0x816f00212201ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0331

User Response

No action; information only.

- **816f0021-2582ffff : Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (All PCI Error)**

This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

May also be shown as 816f00212582ffff or 0x816f00212582ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0331

User Response

No action; information only. One of PCI Error :

- **816f0021-2c01ffff : Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (Exlom Fault)**

This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

May also be shown as 816f00212c01ffff or 0x816f00212c01ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0331

User Response

No action; information only. PCI Raid Fault :

- **816f0021-3001ffff : Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (PCI 1)**

This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

May also be shown as 816f00213001ffff or 0x816f00213001ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0331

User Response

No action; information only.

- **816f0021-3002ffff : Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (PCI 2)**

This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

May also be shown as 816f00213002ffff or 0x816f00213002ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0331

User Response

No action; information only.

- **816f0021-3003ffff : Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (PCI 3)**

This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

May also be shown as 816f00213003ffff or 0x816f00213003ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0331

User Response

No action; information only.

- **816f0021-3004ffff : Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (PCI 4)**

This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

May also be shown as 816f00213004ffff or 0x816f00213004ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0331

User Response

No action; information only.

- **816f0021-3005ffff : Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (PCI 5)**

This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

May also be shown as 816f00213005ffff or 0x816f00213005ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0331

User Response

No action; information only.

- **816f0021-3006ffff : Fault condition removed on slot [PhysicalConnectorElementName] on system [ComputerSystemElementName]. (PCI 6)**

This message is for the use case when an implementation has detected a Fault condition in a slot has been removed.

May also be shown as 816f00213006ffff or 0x816f00213006ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0331

User Response

No action; information only.

- **816f0028-2101ffff : Sensor [SensorElementName] has returned to normal on management system [ComputerSystemElementName]. (TPM Cmd Failures)**

This message is for the use case when an implementation has detected a Sensor returned from degraded/unavailable/failure.

May also be shown as 816f00282101ffff or 0x816f00282101ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Other

SNMP Trap ID

60

CIM Information

Prefix: PLAT ID: 0399

User Response

No action; information only.

- **816f0107-0301ffff : An Over-Temperature Condition has been removed on [ProcessorElementName]. (CPU 1)**

This message is for the use case when an implementation has detected a Over-Temperature Condition has been Removed for Processor.

May also be shown as 816f01070301ffff or 0x816f01070301ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0037

User Response

No action; information only.

- **816f0107-0302ffff : An Over-Temperature Condition has been removed on [ProcessorElementName]. (CPU 2)**

This message is for the use case when an implementation has detected a Over-Temperature Condition has been Removed for Processor.

May also be shown as 816f01070302ffff or 0x816f01070302ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0037

User Response

No action; information only.

- **816f0108-1501ffff : [PowerSupplyElementName] has returned to OK status. (HSC Status)**

This message is for the use case when an implementation has detected a Power Supply return to normal operational status.

May also be shown as 816f01081501ffff or 0x816f01081501ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Power

SNMP Trap ID

4

CIM Information

Prefix: PLAT ID: 0087

User Response

No action; information only.

- **816f010c-2001ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1)**

This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

May also be shown as 816f010c2001ffff or 0x816f010c2001ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0139

User Response

No action; information only.

- **816f010c-2002ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 2)**

This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

May also be shown as 816f010c2002ffff or 0x816f010c2002ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0139

User Response

No action; information only.

- **816f010c-2003ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 3)**

This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

May also be shown as 816f010c2003ffff or 0x816f010c2003ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0139

User Response

No action; information only.

- **816f010c-2004ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 4)**

This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

May also be shown as 816f010c2004ffff or 0x816f010c2004ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information**Prefix:** PLAT ID: 0139**User Response**

No action; information only.

- **816f010c-2005ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5)**

This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

May also be shown as 816f010c2005ffff or 0x816f010c2005ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information**Prefix:** PLAT ID: 0139**User Response**

No action; information only.

- **816f010c-2006ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 6)**

This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

May also be shown as 816f010c2006ffff or 0x816f010c2006ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information**Prefix:** PLAT ID: 0139

User Response

No action; information only.

- **816f010c-2007ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 7)**

This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

May also be shown as 816f010c2007ffff or 0x816f010c2007ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0139

User Response

No action; information only.

- **816f010c-2008ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 8)**

This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

May also be shown as 816f010c2008ffff or 0x816f010c2008ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0139

User Response

No action; information only.

- **816f010c-2009ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 9)**

This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

May also be shown as 816f010c2009ffff or 0x816f010c2009ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0139

User Response

No action; information only.

- **816f010c-200affff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 10)**

This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

May also be shown as 816f010c200affff or 0x816f010c200affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0139

User Response

No action; information only.

- **816f010c-200bffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11)**

This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

May also be shown as 816f010c200bffff or 0x816f010c200bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information**Prefix: PLAT ID:** 0139**User Response**

No action; information only.

- **816f010c-200cffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12)**

This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

May also be shown as 816f010c200cffff or 0x816f010c200cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information**Prefix: PLAT ID:** 0139**User Response**

No action; information only.

- **816f010c-200dffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 13)**

This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

May also be shown as 816f010c200dffff or 0x816f010c200dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0139

User Response

No action; information only.

- **816f010c-200effff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 14)**

This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

May also be shown as 816f010c200effff or 0x816f010c200effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0139

User Response

No action; information only.

- **816f010c-200fffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15)**

This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

May also be shown as 816f010c200fffff or 0x816f010c200fffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information**Prefix:** PLAT ID: 0139**User Response**

No action; information only.

- **816f010c-2010ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 16)**

This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

May also be shown as 816f010c2010ffff or 0x816f010c2010ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information**Prefix:** PLAT ID: 0139**User Response**

No action; information only.

- **816f010c-2581ffff : Uncorrectable error recovery detected for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (All DIMMS)**

This message is for the use case when an implementation has detected a Memory uncorrectable error recovery.

May also be shown as 816f010c2581ffff or 0x816f010c2581ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information**Prefix:** PLAT ID: 0139

User Response

No action; information only. One of the DIMMs :

- **816f010d-0401ffff : The [StorageVolumeElementName] has been enabled. (Computer HDD0)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d0401ffff or 0x816f010d0401ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-0402ffff : The [StorageVolumeElementName] has been enabled. (Computer HDD1)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d0402ffff or 0x816f010d0402ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-0403ffff : The [StorageVolumeElementName] has been enabled. (Computer HDD2)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d0403ffff or 0x816f010d0403ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-0404ffff : The [StorageVolumeElementName] has been enabled. (Computer HDD3)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d0404ffff or 0x816f010d0404ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-0405ffff : The [StorageVolumeElementName] has been enabled. (Computer HDD4)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d0405ffff or 0x816f010d0405ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-0406ffff : The [StorageVolumeElementName] has been enabled. (Computer HDD5)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d0406ffff or 0x816f010d0406ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-0407ffff : The [StorageVolumeElementName] has been enabled. (Computer HDD6)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d0407ffff or 0x816f010d0407ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-0408ffff : The [StorageVolumeElementName] has been enabled. (Computer HDD7)**

This message is for the use case when an implementation has detected a Drive was Enabled.
May also be shown as 816f010d0408ffff or 0x816f010d0408ffff

Severity
Info

Serviceable
No

Automatically notify support
No

Alert Category
Critical - Hard Disk drive

SNMP Trap ID
5

CIM Information
Prefix: PLAT ID: 0167

User Response
No action; information only.

- **816f010d-0409ffff : The [StorageVolumeElementName] has been enabled. (1U Storage HDD0)**

This message is for the use case when an implementation has detected a Drive was Enabled.
May also be shown as 816f010d0409ffff or 0x816f010d0409ffff

Severity
Info

Serviceable
No

Automatically notify support
No

Alert Category
Critical - Hard Disk drive

SNMP Trap ID
5

CIM Information
Prefix: PLAT ID: 0167

User Response
No action; information only.

- **816f010d-040affff : The [StorageVolumeElementName] has been enabled. (1U Storage HDD1)**

This message is for the use case when an implementation has detected a Drive was Enabled.
May also be shown as 816f010d040affff or 0x816f010d040affff

Severity
Info

Serviceable
No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-040bffff : The [StorageVolumeElementName] has been enabled. (1U Storage HDD2)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d040bffff or 0x816f010d040bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-040cffff : The [StorageVolumeElementName] has been enabled. (1U Storage HDD3)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d040cffff or 0x816f010d040cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-040dffff : The [StorageVolumeElementName] has been enabled. (1U Storage HDD4)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d040dffff or 0x816f010d040dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-040effff : The [StorageVolumeElementName] has been enabled. (1U Storage HDD5)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d040effff or 0x816f010d040effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-040fffff : The [StorageVolumeElementName] has been enabled. (1U Storage HDD6)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d040fffff or 0x816f010d040fffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-0410ffff : The [StorageVolumeElementName] has been enabled. (1U Storage HDD7)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d0410ffff or 0x816f010d0410ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only. SDHV Drive 1 :

- **816f010d-0411ffff : The [StorageVolumeElementName] has been enabled. (SDHV Drive 2)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d0411ffff or 0x816f010d0411ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0167**User Response**

No action; information only.

- **816f010d-0412ffff : The [StorageVolumeElementName] has been enabled. (SDHV Drive 3)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d0412ffff or 0x816f010d0412ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0167**User Response**

No action; information only.

- **816f010d-0413ffff : The [StorageVolumeElementName] has been enabled. (SDHV Drive 4)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d0413ffff or 0x816f010d0413ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0167**User Response**

No action; information only.

- **816f010d-0414ffff : The [StorageVolumeElementName] has been enabled. (SDHV Drive 5)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d0414ffff or 0x816f010d0414ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-0415ffff : The [StorageVolumeElementName] has been enabled. (SDHV Drive 6)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d0415ffff or 0x816f010d0415ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-0416ffff : The [StorageVolumeElementName] has been enabled. (SDHV Drive 7)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d0416ffff or 0x816f010d0416ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-0417ffff : The [StorageVolumeElementName] has been enabled. (SDHV Drive 8)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d0417ffff or 0x816f010d0417ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-0418ffff : The [StorageVolumeElementName] has been enabled. (SDHV Drive 9)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d0418ffff or 0x816f010d0418ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-0419ffff : The [StorageVolumeElementName] has been enabled. (SDHV Drive 10)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d0419ffff or 0x816f010d0419ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-041affff : The [StorageVolumeElementName] has been enabled. (SDHV Drive 11)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d041affff or 0x816f010d041affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-041bffff : The [StorageVolumeElementName] has been enabled. (SDHV Drive 12)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d041bffff or 0x816f010d041bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-041cffff : The [StorageVolumeElementName] has been enabled. (SDHV Drive 13)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d041cffff or 0x816f010d041cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-041dffff : The [StorageVolumeElementName] has been enabled. (SDHV Drive 14)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d041dffff or 0x816f010d041dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-041effff : The [StorageVolumeElementName] has been enabled. (SDHV Drive 15)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d041effff or 0x816f010d041effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-041fffff : The [StorageVolumeElementName] has been enabled. (SDHV Drive 16)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d041fffff or 0x816f010d041fffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010d-2b81ffff : The [StorageVolumeElementName] has been enabled. (FDIMM Stat)**

This message is for the use case when an implementation has detected a Drive was Enabled.

May also be shown as 816f010d2b81ffff or 0x816f010d2b81ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0167

User Response

No action; information only.

- **816f010f-2201ffff : The System [ComputerSystemElementName] has recovered from a firmware hang. (Firmware Error)**

This message is for the use case when an implementation has recovered from a System Firmware Hang.

May also be shown as 816f010f2201ffff or 0x816f010f2201ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0187

User Response

No action; information only.

- **816f0113-0301ffff : Bus [SensorElementName] has recovered from a bus timeout. (CPU 1 PECI)**

This message is for the use case when an implementation has detected that a system has recovered from a Bus Timeout.

May also be shown as 816f01130301ffff or 0x816f01130301ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0225

User Response

1. (Trained technician only) Replace microprocessor n (see Removing a microprocessor and heat sink and Replacing a microprocessor and heat sink).
2. If the problem persists and there is no other CPU with the same error indication, replace the system board.
3. (Trained technician only) Replace the system board (see Removing the system board and Replacing the system board). (n = microprocessor number)

• **816f0113-0302ffff : Bus [SensorElementName] has recovered from a bus timeout. (CPU 2 PECI)**

This message is for the use case when an implementation has detected that a system has recovered from a Bus Timeout.

May also be shown as 816f01130302ffff or 0x816f01130302ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0225

User Response

1. (Trained technician only) Replace microprocessor n (see Removing a microprocessor and heat sink and Replacing a microprocessor and heat sink).
2. If the problem persists and there is no other CPU with the same error indication, replace the system board.
3. (Trained technician only) Replace the system board (see Removing the system board and Replacing the system board). (n = microprocessor number)

• **816f0125-1001ffff : [ManagedElementName] detected as present. (PCI Riser 1)**

This message is for the use case when an implementation has detected a Managed Element is now Present.

May also be shown as 816f01251001ffff or 0x816f01251001ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0390

User Response

No action; information only.

- **816f0125-1002ffff : [ManagedElementName] detected as present. (PCI Riser 2)**

This message is for the use case when an implementation has detected a Managed Element is now Present.

May also be shown as 816f01251002ffff or 0x816f01251002ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0390

User Response

No action; information only.

- **816f0125-1f01ffff : [ManagedElementName] detected as present. (PDB Cable)**

This message is for the use case when an implementation has detected a Managed Element is now Present.

May also be shown as 816f01251f01ffff or 0x816f01251f01ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0390

User Response

No action; information only.

- **816f0125-2c01ffff : [ManagedElementName] detected as present. (Exlom Card)**

This message is for the use case when an implementation has detected a Managed Element is now Present.

May also be shown as 816f01252c01ffff or 0x816f01252c01ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0390

User Response

No action; information only.

- **816f0207-0301ffff : [ProcessorElementName] has Recovered from FRB1/BIST condition. (CPU 1)**

This message is for the use case when an implementation has detected a Processor Recovered - FRB1/BIST condition.

May also be shown as 816f02070301ffff or 0x816f02070301ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - CPU

SNMP Trap ID

40

CIM Information

Prefix: PLAT ID: 0045

User Response

No action; information only.

- **816f0207-0302ffff : [ProcessorElementName] has Recovered from FRB1/BIST condition. (CPU 2)**

This message is for the use case when an implementation has detected a Processor Recovered - FRB1/BIST condition.

May also be shown as 816f02070302ffff or 0x816f02070302ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - CPU

SNMP Trap ID

40

CIM Information

Prefix: PLAT ID: 0045

User Response

No action; information only.

- **816f0207-2584ffff : [ProcessorElementName] has Recovered from FRB1/BIST condition. (All CPUs)**

This message is for the use case when an implementation has detected a Processor Recovered - FRB1/BIST condition.

May also be shown as 816f02072584ffff or 0x816f02072584ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - CPU

SNMP Trap ID

40

CIM Information

Prefix: PLAT ID: 0045

User Response

No action; information only. One of the CPUs :

- **816f020d-0401ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (Computer HDD0)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d0401ffff or 0x816f020d0401ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0169

User Response

No action; information only.

- **816f020d-0402ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (Computer HDD1)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d0402ffff or 0x816f020d0402ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0169

User Response

No action; information only.

- **816f020d-0403ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (Computer HDD2)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d0403ffff or 0x816f020d0403ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information**Prefix: PLAT ID:** 0169**User Response**

No action; information only.

- **816f020d-0404ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (Computer HDD3)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d0404ffff or 0x816f020d0404ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information**Prefix: PLAT ID:** 0169**User Response**

No action; information only.

- **816f020d-0405ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (Computer HDD4)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d0405ffff or 0x816f020d0405ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0169

User Response

No action; information only.

- **816f020d-0406ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (Computer HDD5)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d0406ffff or 0x816f020d0406ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0169

User Response

No action; information only.

- **816f020d-0407ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (Computer HDD6)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d0407ffff or 0x816f020d0407ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information**Prefix:** PLAT ID: 0169**User Response**

No action; information only.

- **816f020d-0408ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (Computer HDD7)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d0408ffff or 0x816f020d0408ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information**Prefix:** PLAT ID: 0169**User Response**

No action; information only.

- **816f020d-0409ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD0)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d0409ffff or 0x816f020d0409ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information**Prefix:** PLAT ID: 0169

User Response

No action; information only.

- **816f020d-040affff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD1)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d040affff or 0x816f020d040affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0169

User Response

No action; information only.

- **816f020d-040bffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD2)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d040bffff or 0x816f020d040bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0169

User Response

No action; information only.

- **816f020d-040cffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD3)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d040cffff or 0x816f020d040cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0169

User Response

No action; information only.

- **816f020d-040dffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD4)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d040dffff or 0x816f020d040dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0169

User Response

No action; information only.

- **816f020d-040effff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD5)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d040effff or 0x816f020d040effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0169

User Response

No action; information only.

- **816f020d-040fffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD6)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d040fffff or 0x816f020d040fffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0169

User Response

No action; information only.

- **816f020d-0410ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (1U Storage HDD7)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d0410ffff or 0x816f020d0410ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0169

User Response

No action; information only. SDHV Drive 1 :

- **816f020d-0411ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 2)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d0411ffff or 0x816f020d0411ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0169

User Response

No action; information only.

- **816f020d-0412ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 3)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d0412ffff or 0x816f020d0412ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information**Prefix:** PLAT ID: 0169**User Response**

No action; information only.

- **816f020d-0413ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 4)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d0413ffff or 0x816f020d0413ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information**Prefix:** PLAT ID: 0169**User Response**

No action; information only.

- **816f020d-0414ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 5)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d0414ffff or 0x816f020d0414ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information**Prefix:** PLAT ID: 0169

User Response

No action; information only.

- **816f020d-0415ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 6)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d0415ffff or 0x816f020d0415ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0169

User Response

No action; information only.

- **816f020d-0416ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 7)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d0416ffff or 0x816f020d0416ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0169

User Response

No action; information only.

- **816f020d-0417ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 8)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d0417ffff or 0x816f020d0417ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0169

User Response

No action; information only.

- **816f020d-0418ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 9)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d0418ffff or 0x816f020d0418ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0169

User Response

No action; information only.

- **816f020d-0419ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 10)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d0419ffff or 0x816f020d0419ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information**Prefix: PLAT ID:** 0169**User Response**

No action; information only.

- **816f020d-041afff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 11)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d041afff or 0x816f020d041afff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information**Prefix: PLAT ID:** 0169**User Response**

No action; information only.

- **816f020d-041bfff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 12)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d041bfff or 0x816f020d041bfff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0169

User Response

No action; information only.

- **816f020d-041cffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 13)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d041cffff or 0x816f020d041cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0169

User Response

No action; information only.

- **816f020d-041dffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 14)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d041dffff or 0x816f020d041dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information**Prefix:** PLAT ID: 0169**User Response**

No action; information only.

- **816f020d-041effff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 15)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d041effff or 0x816f020d041effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information**Prefix:** PLAT ID: 0169**User Response**

No action; information only.

- **816f020d-041ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (SDHV Drive 16)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d041ffff or 0x816f020d041ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information**Prefix:** PLAT ID: 0169

User Response

No action; information only.

- **816f020d-2b81ffff : Failure no longer Predicted on [StorageVolumeElementName] for array [ComputerSystemElementName]. (FDIMM Stat)**

This message is for the use case when an implementation has detected an Array Failure is no longer Predicted.

May also be shown as 816f020d2b81ffff or 0x816f020d2b81ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Predicted Failure

SNMP Trap ID

27

CIM Information

Prefix: PLAT ID: 0169

User Response

No action; information only.

- **816f030c-2001ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName] has recovered. (DIMM 1)**

This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

May also be shown as 816f030c2001ffff or 0x816f030c2001ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0137

User Response

No action; information only.

- **816f030c-2002ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName] has recovered. (DIMM 2)**

This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

May also be shown as 816f030c2002ffff or 0x816f030c2002ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0137

User Response

No action; information only.

- **816f030c-2003ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName] has recovered. (DIMM 3)**

This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

May also be shown as 816f030c2003ffff or 0x816f030c2003ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0137

User Response

No action; information only.

- **816f030c-2004ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName] has recovered. (DIMM 4)**

This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

May also be shown as 816f030c2004ffff or 0x816f030c2004ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0137

User Response

No action; information only.

- **816f030c-2005ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName] has recovered. (DIMM 5)**

This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

May also be shown as 816f030c2005ffff or 0x816f030c2005ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0137

User Response

No action; information only.

- **816f030c-2006ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName] has recovered. (DIMM 6)**

This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

May also be shown as 816f030c2006ffff or 0x816f030c2006ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0137

User Response

No action; information only.

- **816f030c-2007ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName] has recovered. (DIMM 7)**

This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

May also be shown as 816f030c2007ffff or 0x816f030c2007ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0137

User Response

No action; information only.

- **816f030c-2008ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName] has recovered. (DIMM 8)**

This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

May also be shown as 816f030c2008ffff or 0x816f030c2008ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0137

User Response

No action; information only.

- **816f030c-2009ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName] has recovered. (DIMM 9)**

This message is for the use case when an implementation has detected a Memory Scrub failure recovery.
May also be shown as 816f030c2009ffff or 0x816f030c2009ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0137

User Response

No action; information only.

- **816f030c-200affff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName] has recovered. (DIMM 10)**

This message is for the use case when an implementation has detected a Memory Scrub failure recovery.
May also be shown as 816f030c200affff or 0x816f030c200affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0137

User Response

No action; information only.

- **816f030c-200bffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName] has recovered. (DIMM 11)**

This message is for the use case when an implementation has detected a Memory Scrub failure recovery.
May also be shown as 816f030c200bffff or 0x816f030c200bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0137

User Response

No action; information only.

- **816f030c-200cffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName] has recovered. (DIMM 12)**

This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

May also be shown as 816f030c200cffff or 0x816f030c200cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0137

User Response

No action; information only.

- **816f030c-200dffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName] has recovered. (DIMM 13)**

This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

May also be shown as 816f030c200dffff or 0x816f030c200dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0137

User Response

No action; information only.

- **816f030c-200effff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName] has recovered. (DIMM 14)**

This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

May also be shown as 816f030c200effff or 0x816f030c200effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0137

User Response

No action; information only.

- **816f030c-200fffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName] has recovered. (DIMM 15)**

This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

May also be shown as 816f030c200fffff or 0x816f030c200fffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0137

User Response

No action; information only.

- **816f030c-2010ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName] has recovered. (DIMM 16)**

This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

May also be shown as 816f030c2010ffff or 0x816f030c2010ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0137

User Response

No action; information only.

- **816f030c-2581ffff : Scrub Failure for [PhysicalMemoryElementName] on Subsystem [MemoryElementName] has recovered. (All DIMMS)**

This message is for the use case when an implementation has detected a Memory Scrub failure recovery.

May also be shown as 816f030c2581ffff or 0x816f030c2581ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0137

User Response

No action; information only. One of the DIMMs :

- **816f030d-0401ffff : Hot spare disabled for [ComputerSystemElementName]. (Computer HDD0)**

This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d0401ffff or 0x816f030d0401ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0171

User Response

No action; information only.

- **816f030d-0402ffff : Hot spare disabled for [ComputerSystemElementName]. (Computer HDD1)**

This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d0402ffff or 0x816f030d0402ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0171

User Response

No action; information only.

- **816f030d-0403ffff : Hot spare disabled for [ComputerSystemElementName]. (Computer HDD2)**

This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d0403ffff or 0x816f030d0403ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information**Prefix:** PLAT ID: 0171**User Response**

No action; information only.

- **816f030d-0404ffff : Hot spare disabled for [ComputerSystemElementName]. (Computer HDD3)**

This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d0404ffff or 0x816f030d0404ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information****Prefix:** PLAT ID: 0171**User Response**

No action; information only.

- **816f030d-0405ffff : Hot spare disabled for [ComputerSystemElementName]. (Computer HDD4)**

This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d0405ffff or 0x816f030d0405ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information****Prefix:** PLAT ID: 0171**User Response**

No action; information only.

- **816f030d-0406ffff : Hot spare disabled for [ComputerSystemElementName]. (Computer HDD5)**

This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d0406ffff or 0x816f030d0406ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0171

User Response

No action; information only.

- **816f030d-0407ffff : Hot spare disabled for [ComputerSystemElementName]. (Computer HDD6)**

This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d0407ffff or 0x816f030d0407ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0171

User Response

No action; information only.

- **816f030d-0408ffff : Hot spare disabled for [ComputerSystemElementName]. (Computer HDD7)**

This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d0408ffff or 0x816f030d0408ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0171

User Response

No action; information only.

- **816f030d-0409ffff : Hot spare disabled for [ComputerSystemElementName]. (1U Storage HDD0)**

This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d0409ffff or 0x816f030d0409ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0171

User Response

No action; information only.

- **816f030d-040affff : Hot spare disabled for [ComputerSystemElementName]. (1U Storage HDD1)**

This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d040affff or 0x816f030d040affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0171

User Response

No action; information only.

- **816f030d-040bffff : Hot spare disabled for [ComputerSystemElementName]. (1U Storage HDD2)**

This message is for the use case when an implementation has detected a Hot Spare has been Disabled.
May also be shown as 816f030d040bffff or 0x816f030d040bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0171

User Response

No action; information only.

- **816f030d-040cffff : Hot spare disabled for [ComputerSystemElementName]. (1U Storage HDD3)**

This message is for the use case when an implementation has detected a Hot Spare has been Disabled.
May also be shown as 816f030d040cffff or 0x816f030d040cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0171

User Response

No action; information only.

- **816f030d-040dffff : Hot spare disabled for [ComputerSystemElementName]. (1U Storage HDD4)**

This message is for the use case when an implementation has detected a Hot Spare has been Disabled.
May also be shown as 816f030d040dffff or 0x816f030d040dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0171

User Response

No action; information only.

- **816f030d-040effff : Hot spare disabled for [ComputerSystemElementName]. (1U Storage HDD5)**

This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d040effff or 0x816f030d040effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0171

User Response

No action; information only.

- **816f030d-040fffff : Hot spare disabled for [ComputerSystemElementName]. (1U Storage HDD6)**

This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d040fffff or 0x816f030d040fffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0171

User Response

No action; information only.

- **816f030d-0410ffff : Hot spare disabled for [ComputerSystemElementName]. (1U Storage HDD7)**

This message is for the use case when an implementation has detected a Hot Spare has been Disabled.

May also be shown as 816f030d0410ffff or 0x816f030d0410ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0171

User Response

No action; information only.

- **816f0313-1701ffff : System [ComputerSystemElementName] has recovered from an NMI. (NMI State)**

This message is for the use case when an implementation has detected a Software NMI has been Recovered from.

May also be shown as 816f03131701ffff or 0x816f03131701ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0230

User Response

No action; information only.

- **816f040c-2001ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 1)**

This message is for the use case when an implementation has detected that Memory has been Enabled.

May also be shown as 816f040c2001ffff or 0x816f040c2001ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0130

User Response

No action; information only.

- **816f040c-2002ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 2)**

This message is for the use case when an implementation has detected that Memory has been Enabled.

May also be shown as 816f040c2002ffff or 0x816f040c2002ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0130

User Response

No action; information only.

- **816f040c-2003ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 3)**

This message is for the use case when an implementation has detected that Memory has been Enabled.

May also be shown as 816f040c2003ffff or 0x816f040c2003ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0130

User Response

No action; information only.

- **816f040c-2004ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 4)**

This message is for the use case when an implementation has detected that Memory has been Enabled.

May also be shown as 816f040c2004ffff or 0x816f040c2004ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0130

User Response

No action; information only.

- **816f040c-2005ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 5)**

This message is for the use case when an implementation has detected that Memory has been Enabled.

May also be shown as 816f040c2005ffff or 0x816f040c2005ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0130

User Response

No action; information only.

- **816f040c-2006ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 6)**

This message is for the use case when an implementation has detected that Memory has been Enabled.

May also be shown as 816f040c2006ffff or 0x816f040c2006ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0130

User Response

No action; information only.

- **816f040c-2007ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 7)**

This message is for the use case when an implementation has detected that Memory has been Enabled.

May also be shown as 816f040c2007ffff or 0x816f040c2007ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0130

User Response

No action; information only.

- **816f040c-2008ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 8)**

This message is for the use case when an implementation has detected that Memory has been Enabled.
May also be shown as 816f040c2008ffff or 0x816f040c2008ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0130

User Response

No action; information only.

- **816f040c-2009ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 9)**

This message is for the use case when an implementation has detected that Memory has been Enabled.
May also be shown as 816f040c2009ffff or 0x816f040c2009ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0130

User Response

No action; information only.

- **816f040c-200affff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 10)**

This message is for the use case when an implementation has detected that Memory has been Enabled.
May also be shown as 816f040c200affff or 0x816f040c200affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0130

User Response

No action; information only.

- **816f040c-200bffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 11)**

This message is for the use case when an implementation has detected that Memory has been Enabled.

May also be shown as 816f040c200bffff or 0x816f040c200bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0130

User Response

No action; information only.

- **816f040c-200cffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 12)**

This message is for the use case when an implementation has detected that Memory has been Enabled.

May also be shown as 816f040c200cffff or 0x816f040c200cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0130

User Response

No action; information only.

- **816f040c-200dffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 13)**

This message is for the use case when an implementation has detected that Memory has been Enabled.

May also be shown as 816f040c200dffff or 0x816f040c200dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0130

User Response

No action; information only.

- **816f040c-200effff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 14)**

This message is for the use case when an implementation has detected that Memory has been Enabled.

May also be shown as 816f040c200effff or 0x816f040c200effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0130

User Response

No action; information only.

- **816f040c-200ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 15)**

This message is for the use case when an implementation has detected that Memory has been Enabled.

May also be shown as 816f040c200ffff or 0x816f040c200ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0130

User Response

No action; information only.

- **816f040c-2010ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (DIMM 16)**

This message is for the use case when an implementation has detected that Memory has been Enabled.

May also be shown as 816f040c2010ffff or 0x816f040c2010ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0130

User Response

No action; information only.

- **816f040c-2581ffff : [PhysicalMemoryElementName] Enabled on Subsystem [MemoryElementName]. (All DIMMS)**

This message is for the use case when an implementation has detected that Memory has been Enabled.

May also be shown as 816f040c2581ffff or 0x816f040c2581ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0130

User Response

No action; information only. One of the DIMMs :

- **816f0413-2582ffff : A PCI PERR recovery has occurred on system [ComputerSystemElementName]. (PCIs)**

This message is for the use case when an implementation has detected a PCI PERR recovered.

May also be shown as 816f04132582ffff or 0x816f04132582ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0233

User Response

No action; information only.

- **816f0507-0301ffff : [ProcessorElementName] has Recovered from a Configuration Mismatch. (CPU 1)**

This message is for the use case when an implementation has Recovered from a Processor Configuration Mismatch.

May also be shown as 816f05070301ffff or 0x816f05070301ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category
Critical - CPU

SNMP Trap ID
40

CIM Information
Prefix: PLAT ID: 0063

User Response
No action; information only.

- **816f0507-0302ffff : [ProcessorElementName] has Recovered from a Configuration Mismatch. (CPU 2)**

This message is for the use case when an implementation has Recovered from a Processor Configuration Mismatch.

May also be shown as 816f05070302ffff or 0x816f05070302ffff

Severity
Info

Serviceable
No

Automatically notify support
No

Alert Category
Critical - CPU

SNMP Trap ID
40

CIM Information
Prefix: PLAT ID: 0063

User Response
No action; information only.

- **816f0507-2584ffff : [ProcessorElementName] has Recovered from a Configuration Mismatch. (All CPUs)**

This message is for the use case when an implementation has Recovered from a Processor Configuration Mismatch.

May also be shown as 816f05072584ffff or 0x816f05072584ffff

Severity
Info

Serviceable
No

Automatically notify support
No

Alert Category
Critical - CPU

SNMP Trap ID
40

CIM Information

Prefix: PLAT ID: 0063

User Response

No action; information only. One of the CPUs :

- **816f0508-1501ffff : [PowerSupplyElementName] has returned to a Normal Input State. (HSC Status)**

This message is for the use case when an implementation has detected a Power Supply that has input that has returned to normal.

May also be shown as 816f05081501ffff or 0x816f05081501ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0099

User Response

No action; information only.

- **816f050c-2001ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

May also be shown as 816f050c2001ffff or 0x816f050c2001ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0145

User Response

No action; information only.

- **816f050c-2002ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 2)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

May also be shown as 816f050c2002ffff or 0x816f050c2002ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0145

User Response

No action; information only.

- **816f050c-2003ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 3)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

May also be shown as 816f050c2003ffff or 0x816f050c2003ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0145

User Response

No action; information only.

- **816f050c-2004ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 4)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

May also be shown as 816f050c2004ffff or 0x816f050c2004ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0145

User Response

No action; information only.

- **816f050c-2005ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

May also be shown as 816f050c2005ffff or 0x816f050c2005ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0145

User Response

No action; information only.

- **816f050c-2006ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 6)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

May also be shown as 816f050c2006ffff or 0x816f050c2006ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0145

User Response

No action; information only.

- **816f050c-2007ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 7)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

May also be shown as 816f050c2007ffff or 0x816f050c2007ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0145

User Response

No action; information only.

- **816f050c-2008ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 8)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

May also be shown as 816f050c2008ffff or 0x816f050c2008ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0145

User Response

No action; information only.

- **816f050c-2009ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 9)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

May also be shown as 816f050c2009ffff or 0x816f050c2009ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0145

User Response

No action; information only.

- **816f050c-200affff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 10)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

May also be shown as 816f050c200affff or 0x816f050c200affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0145

User Response

No action; information only.

- **816f050c-200bffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

May also be shown as 816f050c200bffff or 0x816f050c200bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0145

User Response

No action; information only.

- **816f050c-200cffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

May also be shown as 816f050c200cffff or 0x816f050c200cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0145

User Response

No action; information only.

- **816f050c-200dffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 13)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

May also be shown as 816f050c200dffff or 0x816f050c200dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0145

User Response

No action; information only.

- **816f050c-200effff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 14)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

May also be shown as 816f050c200effff or 0x816f050c200effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0145

User Response

No action; information only.

- **816f050c-200fffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

May also be shown as 816f050c200ffff or 0x816f050c200ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0145

User Response

No action; information only.

- **816f050c-2010ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 16)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

May also be shown as 816f050c2010ffff or 0x816f050c2010ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0145

User Response

No action; information only.

- **816f050c-2581ffff : Memory Logging Limit Removed for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (All DIMMS)**

This message is for the use case when an implementation has detected that the Memory Logging Limit has been Removed.

May also be shown as 816f050c2581ffff or 0x816f050c2581ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - Memory

SNMP Trap ID

43

CIM Information

Prefix: PLAT ID: 0145

User Response

No action; information only. One of the DIMMs :

- **816f050d-0401ffff : Critical Array [ComputerSystemElementName] has deasserted. (Computer HDD0)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d0401ffff or 0x816f050d0401ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-0402ffff : Critical Array [ComputerSystemElementName] has deasserted. (Computer HDD1)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d0402ffff or 0x816f050d0402ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-0403ffff : Critical Array [ComputerSystemElementName] has deasserted. (Computer HDD2)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d0403ffff or 0x816f050d0403ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-0404ffff : Critical Array [ComputerSystemElementName] has deasserted. (Computer HDD3)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d0404ffff or 0x816f050d0404ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-0405ffff : Critical Array [ComputerSystemElementName] has deasserted. (Computer HDD4)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d0405ffff or 0x816f050d0405ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-0406ffff : Critical Array [ComputerSystemElementName] has deasserted. (Computer HDD5)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d0406ffff or 0x816f050d0406ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-0407ffff : Critical Array [ComputerSystemElementName] has deasserted. (Computer HDD6)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d0407ffff or 0x816f050d0407ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-0408ffff : Critical Array [ComputerSystemElementName] has deasserted. (Computer HDD7)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d0408ffff or 0x816f050d0408ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-0409ffff : Critical Array [ComputerSystemElementName] has deasserted. (1U Storage HDD0)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d0409ffff or 0x816f050d0409ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-040affff : Critical Array [ComputerSystemElementName] has deasserted. (1U Storage HDD1)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d040affff or 0x816f050d040affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-040bffff : Critical Array [ComputerSystemElementName] has deasserted. (1U Storage HDD2)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d040bffff or 0x816f050d040bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-040cffff : Critical Array [ComputerSystemElementName] has deasserted. (1U Storage HDD3)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d040cffff or 0x816f050d040cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-040dffff : Critical Array [ComputerSystemElementName] has deasserted. (1U Storage HDD4)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d040dffff or 0x816f050d040dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-040effff : Critical Array [ComputerSystemElementName] has deasserted. (1U Storage HDD5)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d040effff or 0x816f050d040effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-040fffff : Critical Array [ComputerSystemElementName] has deasserted. (1U Storage HDD6)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d040fffff or 0x816f050d040fffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-0410ffff : Critical Array [ComputerSystemElementName] has deasserted. (1U Storage HDD7)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d0410ffff or 0x816f050d0410ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only. SDHV Drive 1 :

- **816f050d-0411ffff : Critical Array [ComputerSystemElementName] has deasserted. (SDHV Drive 2)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d0411ffff or 0x816f050d0411ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-0412ffff : Critical Array [ComputerSystemElementName] has deasserted. (SDHV Drive 3)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d0412ffff or 0x816f050d0412ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-0413ffff : Critical Array [ComputerSystemElementName] has deasserted. (SDHV Drive 4)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d0413ffff or 0x816f050d0413ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-0414ffff : Critical Array [ComputerSystemElementName] has deasserted. (SDHV Drive 5)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d0414ffff or 0x816f050d0414ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix: PLAT ID:** 0175**User Response**

No action; information only.

- **816f050d-0415ffff : Critical Array [ComputerSystemElementName] has deasserted. (SDHV Drive 6)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d0415ffff or 0x816f050d0415ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix: PLAT ID:** 0175**User Response**

No action; information only.

- **816f050d-0416ffff : Critical Array [ComputerSystemElementName] has deasserted. (SDHV Drive 7)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d0416ffff or 0x816f050d0416ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-0417ffff : Critical Array [ComputerSystemElementName] has deasserted. (SDHV Drive 8)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d0417ffff or 0x816f050d0417ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-0418ffff : Critical Array [ComputerSystemElementName] has deasserted. (SDHV Drive 9)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d0418ffff or 0x816f050d0418ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-0419ffff : Critical Array [ComputerSystemElementName] has deasserted. (SDHV Drive 10)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d0419ffff or 0x816f050d0419ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-041affff : Critical Array [ComputerSystemElementName] has deasserted. (SDHV Drive 11)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d041affff or 0x816f050d041affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-041bffff : Critical Array [ComputerSystemElementName] has deasserted. (SDHV Drive 12)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d041bffff or 0x816f050d041bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-041cffff : Critical Array [ComputerSystemElementName] has deasserted. (SDHV Drive 13)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d041cffff or 0x816f050d041cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-041dffff : Critical Array [ComputerSystemElementName] has deasserted. (SDHV Drive 14)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d041dffff or 0x816f050d041dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-041effff : Critical Array [ComputerSystemElementName] has deasserted. (SDHV Drive 15)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d041effff or 0x816f050d041effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f050d-041ffff : Critical Array [ComputerSystemElementName] has deasserted. (SDHV Drive 16)**

This message is for the use case when an implementation has detected that an Critical Array has deasserted.

May also be shown as 816f050d041ffff or 0x816f050d041ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0175

User Response

No action; information only.

- **816f0607-0301ffff : An SM BIOS Uncorrectable CPU complex error for [ProcessorElementName] has deasserted. (CPU 1)**

This message is for the use case when an SM BIOS Uncorrectable CPU complex error has deasserted.

May also be shown as 816f06070301ffff or 0x816f06070301ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - CPU

SNMP Trap ID

40

CIM Information

Prefix: PLAT ID: 0817

User Response

No action; information only.

- **816f0607-0302ffff : An SM BIOS Uncorrectable CPU complex error for [ProcessorElementName] has deasserted. (CPU 2)**

This message is for the use case when an SM BIOS Uncorrectable CPU complex error has deasserted.

May also be shown as 816f06070302ffff or 0x816f06070302ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - CPU

SNMP Trap ID

40

CIM Information

Prefix: PLAT ID: 0817

User Response

No action; information only.

- **816f0607-2584ffff : An SM BIOS Uncorrectable CPU complex error for [ProcessorElementName] has deasserted. (All CPUs)**

This message is for the use case when an SM BIOS Uncorrectable CPU complex error has deasserted.

May also be shown as 816f06072584ffff or 0x816f06072584ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - CPU

SNMP Trap ID

40

CIM Information**Prefix: PLAT ID:** 0817**User Response**

No action; information only. One of the CPUs :

- **816f060d-0401ffff : Array in system [ComputerSystemElementName] has been restored. (Computer HDD0)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d0401ffff or 0x816f060d0401ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix: PLAT ID:** 0177**User Response**

No action; information only.

- **816f060d-0402ffff : Array in system [ComputerSystemElementName] has been restored. (Computer HDD1)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d0402ffff or 0x816f060d0402ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f060d-0403ffff : Array in system [ComputerSystemElementName] has been restored. (Computer HDD2)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d0403ffff or 0x816f060d0403ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f060d-0404ffff : Array in system [ComputerSystemElementName] has been restored. (Computer HDD3)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d0404ffff or 0x816f060d0404ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0177**User Response**

No action; information only.

- **816f060d-0405ffff : Array in system [ComputerSystemElementName] has been restored. (Computer HDD4)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d0405ffff or 0x816f060d0405ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0177**User Response**

No action; information only.

- **816f060d-0406ffff : Array in system [ComputerSystemElementName] has been restored. (Computer HDD5)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d0406ffff or 0x816f060d0406ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0177

User Response

No action; information only.

- **816f060d-0407ffff : Array in system [ComputerSystemElementName] has been restored. (Computer HDD6)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d0407ffff or 0x816f060d0407ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f060d-0408ffff : Array in system [ComputerSystemElementName] has been restored. (Computer HDD7)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d0408ffff or 0x816f060d0408ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f060d-0409ffff : Array in system [ComputerSystemElementName] has been restored. (1U Storage HDD0)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d0409ffff or 0x816f060d0409ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f060d-040affff : Array in system [ComputerSystemElementName] has been restored. (1U Storage HDD1)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d040affff or 0x816f060d040affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f060d-040bffff : Array in system [ComputerSystemElementName] has been restored. (1U Storage HDD2)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d040bffff or 0x816f060d040bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f060d-040cffff : Array in system [ComputerSystemElementName] has been restored. (1U Storage HDD3)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d040cffff or 0x816f060d040cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f060d-040dffff : Array in system [ComputerSystemElementName] has been restored. (1U Storage HDD4)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d040dffff or 0x816f060d040dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f060d-040effff : Array in system [ComputerSystemElementName] has been restored. (1U Storage HDD5)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d040effff or 0x816f060d040effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f060d-040fffff : Array in system [ComputerSystemElementName] has been restored. (1U Storage HDD6)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d040fffff or 0x816f060d040fffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f060d-0410ffff : Array in system [ComputerSystemElementName] has been restored. (1U Storage HDD7)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d0410ffff or 0x816f060d0410ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only. SDHV Drive 1 :

- **816f060d-0411ffff : Array in system [ComputerSystemElementName] has been restored. (SDHV Drive 2)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d0411ffff or 0x816f060d0411ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f060d-0412ffff : Array in system [ComputerSystemElementName] has been restored. (SDHV Drive 3)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d0412ffff or 0x816f060d0412ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f060d-0413ffff : Array in system [ComputerSystemElementName] has been restored. (SDHV Drive 4)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d0413ffff or 0x816f060d0413ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f060d-0414ffff : Array in system [ComputerSystemElementName] has been restored. (SDHV Drive 5)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d0414ffff or 0x816f060d0414ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f060d-0415ffff : Array in system [ComputerSystemElementName] has been restored. (SDHV Drive 6)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d0415ffff or 0x816f060d0415ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f060d-0416ffff : Array in system [ComputerSystemElementName] has been restored. (SDHV Drive 7)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d0416ffff or 0x816f060d0416ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix: PLAT ID:** 0177**User Response**

No action; information only.

- **816f060d-0417ffff : Array in system [ComputerSystemElementName] has been restored. (SDHV Drive 8)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d0417ffff or 0x816f060d0417ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix: PLAT ID:** 0177**User Response**

No action; information only.

- **816f060d-0418ffff : Array in system [ComputerSystemElementName] has been restored. (SDHV Drive 9)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d0418ffff or 0x816f060d0418ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f060d-0419ffff : Array in system [ComputerSystemElementName] has been restored. (SDHV Drive 10)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d0419ffff or 0x816f060d0419ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f060d-041affff : Array in system [ComputerSystemElementName] has been restored. (SDHV Drive 11)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d041affff or 0x816f060d041affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0177**User Response**

No action; information only.

- **816f060d-041bffff : Array in system [ComputerSystemElementName] has been restored. (SDHV Drive 12)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d041bffff or 0x816f060d041bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0177**User Response**

No action; information only.

- **816f060d-041cffff : Array in system [ComputerSystemElementName] has been restored. (SDHV Drive 13)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d041cffff or 0x816f060d041cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information**Prefix:** PLAT ID: 0177

User Response

No action; information only.

- **816f060d-041dffff : Array in system [ComputerSystemElementName] has been restored. (SDHV Drive 14)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d041dffff or 0x816f060d041dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f060d-041effff : Array in system [ComputerSystemElementName] has been restored. (SDHV Drive 15)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d041effff or 0x816f060d041effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f060d-041fffff : Array in system [ComputerSystemElementName] has been restored. (SDHV Drive 16)**

This message is for the use case when an implementation has detected that a Failed Array has been Restored.

May also be shown as 816f060d041ffff or 0x816f060d041ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Hard Disk drive

SNMP Trap ID

5

CIM Information

Prefix: PLAT ID: 0177

User Response

No action; information only.

- **816f070c-2001ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 1)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

May also be shown as 816f070c2001ffff or 0x816f070c2001ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0127

User Response

No action; information only.

- **816f070c-2002ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 2)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

May also be shown as 816f070c2002ffff or 0x816f070c2002ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0127

User Response

No action; information only.

- **816f070c-2003ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 3)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

May also be shown as 816f070c2003ffff or 0x816f070c2003ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0127

User Response

No action; information only.

- **816f070c-2004ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 4)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

May also be shown as 816f070c2004ffff or 0x816f070c2004ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0127

User Response

No action; information only.

- **816f070c-2005ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 5)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

May also be shown as 816f070c2005ffff or 0x816f070c2005ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0127

User Response

No action; information only.

- **816f070c-2006ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 6)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

May also be shown as 816f070c2006ffff or 0x816f070c2006ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0127

User Response

No action; information only.

- **816f070c-2007ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 7)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

May also be shown as 816f070c2007ffff or 0x816f070c2007ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0127

User Response

No action; information only.

- **816f070c-2008ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 8)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

May also be shown as 816f070c2008ffff or 0x816f070c2008ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0127

User Response

No action; information only.

- **816f070c-2009ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 9)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

May also be shown as 816f070c2009ffff or 0x816f070c2009ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0127

User Response

No action; information only.

- **816f070c-200affff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 10)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

May also be shown as 816f070c200affff or 0x816f070c200affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0127

User Response

No action; information only.

- **816f070c-200bffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 11)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

May also be shown as 816f070c200bffff or 0x816f070c200bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0127

User Response

No action; information only.

- **816f070c-200cffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 12)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

May also be shown as 816f070c200cffff or 0x816f070c200cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0127

User Response

No action; information only.

- **816f070c-200dffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 13)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

May also be shown as 816f070c200dffff or 0x816f070c200dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information**Prefix:** PLAT ID: 0127**User Response**

No action; information only.

- **816f070c-200efff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 14)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

May also be shown as 816f070c200efff or 0x816f070c200efff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information**Prefix:** PLAT ID: 0127**User Response**

No action; information only.

- **816f070c-200ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 15)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

May also be shown as 816f070c200ffff or 0x816f070c200ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0127

User Response

No action; information only.

- **816f070c-2010ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (DIMM 16)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

May also be shown as 816f070c2010ffff or 0x816f070c2010ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information

Prefix: PLAT ID: 0127

User Response

No action; information only.

- **816f070c-2581ffff : Configuration error for [PhysicalMemoryElementName] on Subsystem [MemoryElementName]has deasserted. (All DIMMS)**

This message is for the use case when an implementation has detected a Memory DIMM configuration error has deasserted.

May also be shown as 816f070c2581ffff or 0x816f070c2581ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Memory

SNMP Trap ID

41

CIM Information**Prefix:** PLAT ID: 0127**User Response**

No action; information only. One of the DIMMs :

- **816f070d-0401ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Computer HDD0)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d0401ffff or 0x816f070d0401ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information****Prefix:** PLAT ID: 0179**User Response**

No action; information only.

- **816f070d-0402ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Computer HDD1)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d0402ffff or 0x816f070d0402ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information****Prefix:** PLAT ID: 0179

User Response

No action; information only.

- **816f070d-0403ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Computer HDD2)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d0403ffff or 0x816f070d0403ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-0404ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Computer HDD3)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d0404ffff or 0x816f070d0404ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-0405ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Computer HDD4)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d0405ffff or 0x816f070d0405ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-0406ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Computer HDD5)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d0406ffff or 0x816f070d0406ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-0407ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Computer HDD6)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d0407ffff or 0x816f070d0407ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-0408ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (Computer HDD7)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d0408ffff or 0x816f070d0408ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-0409ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (1U Storage HDD0)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d0409ffff or 0x816f070d0409ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-040affff : Rebuild completed for Array in system [ComputerSystemElementName]. (1U Storage HDD1)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d040affff or 0x816f070d040affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-040bffff : Rebuild completed for Array in system [ComputerSystemElementName]. (1U Storage HDD2)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d040bffff or 0x816f070d040bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-040cffff : Rebuild completed for Array in system [ComputerSystemElementName]. (1U Storage HDD3)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d040cffff or 0x816f070d040cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-040dffff : Rebuild completed for Array in system [ComputerSystemElementName]. (1U Storage HDD4)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d040dffff or 0x816f070d040dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-040effff : Rebuild completed for Array in system [ComputerSystemElementName]. (1U Storage HDD5)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d040effff or 0x816f070d040effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-040fffff : Rebuild completed for Array in system [ComputerSystemElementName]. (1U Storage HDD6)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d040fffff or 0x816f070d040fffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-0410ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (1U Storage HDD7)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d0410ffff or 0x816f070d0410ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0179

User Response

No action; information only. SDHV Drive 1 :

- **816f070d-0411ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 2)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d0411ffff or 0x816f070d0411ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-0412ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 3)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d0412ffff or 0x816f070d0412ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information****Prefix: PLAT ID:** 0179**User Response**

No action; information only.

- **816f070d-0413ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 4)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d0413ffff or 0x816f070d0413ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information****Prefix: PLAT ID:** 0179**User Response**

No action; information only.

- **816f070d-0414ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 5)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d0414ffff or 0x816f070d0414ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-0415ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 6)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d0415ffff or 0x816f070d0415ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-0416ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 7)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d0416ffff or 0x816f070d0416ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-0417ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 8)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d0417ffff or 0x816f070d0417ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-0418ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 9)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d0418ffff or 0x816f070d0418ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-0419ffff : Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 10)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d0419ffff or 0x816f070d0419ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-041affff : Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 11)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d041affff or 0x816f070d041affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-041bffff : Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 12)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d041bfff or 0x816f070d041bfff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-041cfff : Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 13)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d041cfff or 0x816f070d041cfff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-041dfff : Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 14)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d041dfff or 0x816f070d041dfff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-041effff : Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 15)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d041effff or 0x816f070d041effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f070d-041fffff : Rebuild completed for Array in system [ComputerSystemElementName]. (SDHV Drive 16)**

This message is for the use case when an implementation has detected that an Array Rebuild has Completed.

May also be shown as 816f070d041fffff or 0x816f070d041fffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0179

User Response

No action; information only.

- **816f0807-0301ffff : [ProcessorElementName] has been Enabled. (CPU 1)**

This message is for the use case when an implementation has detected a Processor has been Enabled.

May also be shown as 816f08070301ffff or 0x816f08070301ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0060

User Response

No action; information only.

- **816f0807-0302ffff : [ProcessorElementName] has been Enabled. (CPU 2)**

This message is for the use case when an implementation has detected a Processor has been Enabled.

May also be shown as 816f08070302ffff or 0x816f08070302ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0060

User Response

No action; information only.

- **816f0807-2584ffff : [ProcessorElementName] has been Enabled. (All CPUs)**

This message is for the use case when an implementation has detected a Processor has been Enabled.

May also be shown as 816f08072584ffff or 0x816f08072584ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0060

User Response

No action; information only. One of the CPUs :

- **816f0813-2581ffff : Bus [SensorElementName] has recovered from an Uncorrectable Error. (DIMMs)**

This message is for the use case when an implementation has detected a that a system has recovered from a Bus Uncorrectable Error.

May also be shown as 816f08132581ffff or 0x816f08132581ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0241

User Response

No action; information only.

- **816f0813-2582ffff : Bus [SensorElementName] has recovered from an Uncorrectable Error. (PCIs)**

This message is for the use case when an implementation has detected a that a system has recovered from a Bus Uncorrectable Error.

May also be shown as 816f08132582ffff or 0x816f08132582ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0241

User Response

No action; information only.

- **816f0813-2584ffff : Bus [SensorElementName] has recovered from an Uncorrectable Error. (CPUs)**

This message is for the use case when an implementation has detected a that a system has recovered from a Bus Uncorrectable Error.

May also be shown as 816f08132584ffff or 0x816f08132584ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information

Prefix: PLAT ID: 0241

User Response

No action; information only.

- **816f090c-2001ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 1)**

This message is for the use case when an implementation has detected Memory is no longer Throttled.

May also be shown as 816f090c2001ffff or 0x816f090c2001ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0143

User Response

No action; information only.

- **816f090c-2002ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 2)**

This message is for the use case when an implementation has detected Memory is no longer Throttled.

May also be shown as 816f090c2002ffff or 0x816f090c2002ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0143

User Response

No action; information only.

- **816f090c-2003ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 3)**

This message is for the use case when an implementation has detected Memory is no longer Throttled.

May also be shown as 816f090c2003ffff or 0x816f090c2003ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0143

User Response

No action; information only.

- **816f090c-2004ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 4)**

This message is for the use case when an implementation has detected Memory is no longer Throttled.

May also be shown as 816f090c2004ffff or 0x816f090c2004ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0143

User Response

No action; information only.

- **816f090c-2005ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 5)**

This message is for the use case when an implementation has detected Memory is no longer Throttled.

May also be shown as 816f090c2005ffff or 0x816f090c2005ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0143

User Response

No action; information only.

- **816f090c-2006ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 6)**

This message is for the use case when an implementation has detected Memory is no longer Throttled.
May also be shown as 816f090c2006ffff or 0x816f090c2006ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0143

User Response

No action; information only.

- **816f090c-2007ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 7)**

This message is for the use case when an implementation has detected Memory is no longer Throttled.
May also be shown as 816f090c2007ffff or 0x816f090c2007ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0143

User Response

No action; information only.

- **816f090c-2008ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 8)**

This message is for the use case when an implementation has detected Memory is no longer Throttled.
May also be shown as 816f090c2008ffff or 0x816f090c2008ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0143

User Response

No action; information only.

- **816f090c-2009ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 9)**

This message is for the use case when an implementation has detected Memory is no longer Throttled.

May also be shown as 816f090c2009ffff or 0x816f090c2009ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0143

User Response

No action; information only.

- **816f090c-200affff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 10)**

This message is for the use case when an implementation has detected Memory is no longer Throttled.

May also be shown as 816f090c200affff or 0x816f090c200affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0143

User Response

No action; information only.

- **816f090c-200bffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 11)**

This message is for the use case when an implementation has detected Memory is no longer Throttled.

May also be shown as 816f090c200bffff or 0x816f090c200bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0143

User Response

No action; information only.

- **816f090c-200cffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 12)**

This message is for the use case when an implementation has detected Memory is no longer Throttled.

May also be shown as 816f090c200cffff or 0x816f090c200cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID**CIM Information**

Prefix: PLAT ID: 0143

User Response

No action; information only.

- **816f090c-200dfff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 13)**

This message is for the use case when an implementation has detected Memory is no longer Throttled.

May also be shown as 816f090c200dfff or 0x816f090c200dfff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0143

User Response

No action; information only.

- **816f090c-200efff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 14)**

This message is for the use case when an implementation has detected Memory is no longer Throttled.

May also be shown as 816f090c200efff or 0x816f090c200efff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0143

User Response

No action; information only.

- **816f090c-200ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 15)**

This message is for the use case when an implementation has detected Memory is no longer Throttled.

May also be shown as 816f090c200ffff or 0x816f090c200ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0143

User Response

No action; information only.

- **816f090c-2010ffff : [PhysicalMemoryElementName] on Subsystem [MemoryElementName] is no longer Throttled. (DIMM 16)**

This message is for the use case when an implementation has detected Memory is no longer Throttled.

May also be shown as 816f090c2010ffff or 0x816f090c2010ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

System - Other

SNMP Trap ID

CIM Information

Prefix: PLAT ID: 0143

User Response

No action; information only.

- **816f0a07-0301ffff : The Processor [ProcessorElementName] is no longer operating in a Degraded State. (CPU 1)**

This message is for the use case when an implementation has detected a Processor is no longer running in the Degraded state.

May also be shown as 816f0a070301ffff or 0x816f0a070301ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - CPU

SNMP Trap ID

42

CIM Information**Prefix:** PLAT ID: 0039**User Response**

No action; information only.

- **816f0a07-0302ffff : The Processor [ProcessorElementName] is no longer operating in a Degraded State. (CPU 2)**

This message is for the use case when an implementation has detected a Processor is no longer running in the Degraded state.

May also be shown as 816f0a070302ffff or 0x816f0a070302ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Warning - CPU

SNMP Trap ID

42

CIM Information**Prefix:** PLAT ID: 0039**User Response**

No action; information only.

- **816f0a0c-2001ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 1)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

May also be shown as 816f0a0c2001ffff or 0x816f0a0c2001ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0147

User Response

No action; information only.

- **816f0a0c-2002ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 2)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

May also be shown as 816f0a0c2002ffff or 0x816f0a0c2002ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0147

User Response

No action; information only.

- **816f0a0c-2003ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 3)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

May also be shown as 816f0a0c2003ffff or 0x816f0a0c2003ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0147

User Response

No action; information only.

- **816f0a0c-2004ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 4)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

May also be shown as 816f0a0c2004ffff or 0x816f0a0c2004ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0147

User Response

No action; information only.

- **816f0a0c-2005ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 5)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

May also be shown as 816f0a0c2005ffff or 0x816f0a0c2005ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0147

User Response

No action; information only.

- **816f0a0c-2006ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 6)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

May also be shown as 816f0a0c2006ffff or 0x816f0a0c2006ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0147

User Response

No action; information only.

- **816f0a0c-2007ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 7)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

May also be shown as 816f0a0c2007ffff or 0x816f0a0c2007ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0147

User Response

No action; information only.

- **816f0a0c-2008ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 8)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

May also be shown as 816f0a0c2008ffff or 0x816f0a0c2008ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0147

User Response

No action; information only.

- **816f0a0c-2009ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 9)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

May also be shown as 816f0a0c2009ffff or 0x816f0a0c2009ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0147

User Response

No action; information only.

- **816f0a0c-200affff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 10)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

May also be shown as 816f0a0c200affff or 0x816f0a0c200affff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0147

User Response

No action; information only.

- **816f0a0c-200bffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 11)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

May also be shown as 816f0a0c200bffff or 0x816f0a0c200bffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0147

User Response

No action; information only.

- **816f0a0c-200cffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 12)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

May also be shown as 816f0a0c200cffff or 0x816f0a0c200cffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0147

User Response

No action; information only.

- **816f0a0c-200dffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 13)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

May also be shown as 816f0a0c200dffff or 0x816f0a0c200dffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0147

User Response

No action; information only.

- **816f0a0c-200effff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 14)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

May also be shown as 816f0a0c200effff or 0x816f0a0c200effff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0147

User Response

No action; information only.

- **816f0a0c-200ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 15)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

May also be shown as 816f0a0c200ffff or 0x816f0a0c200ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0147

User Response

No action; information only.

- **816f0a0c-2010ffff : An Over-Temperature Condition has been removed on the [PhysicalMemoryElementName] on Subsystem [MemoryElementName]. (DIMM 16)**

This message is for the use case when an implementation has detected an Over Temperature Condition for Memory that has been Removed.

May also be shown as 816f0a0c2010ffff or 0x816f0a0c2010ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Temperature

SNMP Trap ID

0

CIM Information

Prefix: PLAT ID: 0147

User Response

No action; information only.

- **816f0a13-0301ffff : Bus [SensorElementName] has recovered from a Fatal Bus Error. (CPU 1 PECI)**

This message is for the use case when an implementation has detected that a system has recovered from a Bus Fatal Error.

May also be shown as 816f0a130301ffff or 0x816f0a130301ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information**Prefix:** PLAT ID: 0245**User Response**

1. (Trained technician only) Replace microprocessor n (see Removing a microprocessor and heat sink and Replacing a microprocessor and heat sink).
2. If the problem persists and there is no other CPU with the same error indication, replace the system board.
3. (Trained technician only) Replace the system board (see Removing the system board and Replacing the system board). (n = microprocessor number)

- **816f0a13-0302ffff : Bus [SensorElementName] has recovered from a Fatal Bus Error. (CPU 2 PECl)**

This message is for the use case when an implementation has detected that a system has recovered from a Bus Fatal Error.

May also be shown as 816f0a130302ffff or 0x816f0a130302ffff

Severity

Info

Serviceable

No

Automatically notify support

No

Alert Category

Critical - Other

SNMP Trap ID

50

CIM Information**Prefix:** PLAT ID: 0245**User Response**

1. (Trained technician only) Replace microprocessor n (see Removing a microprocessor and heat sink and Replacing a microprocessor and heat sink).
2. If the problem persists and there is no other CPU with the same error indication, replace the system board.
3. (Trained technician only) Replace the system board (see Removing the system board and Replacing the system board). (n = microprocessor number)

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 26. 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 Set up> 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.

List of UEFI events

This section lists all messages that can be sent from UEFI.

- **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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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, reseal the adapter and any attached cables.
2. Check Lenovo 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, reseal the adapter and any attached cables.
2. Move the adapter to a different system slot, if available.
3. Check Lenovo 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 Lenovo 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 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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 Lenovo 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.

Test results for the DSA Broadcom network test

The following messages can result when you run the DSA Broadcom network test.

- **405-000-000 : BCM:TestControlRegisters Test Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **405-001-000 : BCM:TestMIIRegisters Test Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **405-002-000 : BCM:TestEEPROM Test Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **405-003-000 : BRCM:TestInternalMemory Test Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **405-004-000 : BRCM:TestInterrupt Test Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **405-005-000 : BRCM:TestLoopbackMAC Test Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **405-006-000 : BRCM:TestLoopbackPhysical Test Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **405-007-000 : BRCM:TestLEDs Test Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **405-800-000 : BRCM:TestControlRegisters Test Aborted**

The control registers test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **405-801-000 : BRCM:TestMIIRegisters Test Aborted**

The MII register test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **405-802-000 : BRCM:TestEEPROM Test Aborted**

The EEPROM test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **405-803-000 : BRCM:TestInternalMemory Test Aborted**

The internal memory test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **405-804-000 : BRCM:TestInterrupt Test Aborted**

The interrupt test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **405-805-000 : BRCM:TestLoopbackMAC Test Aborted**

Loopback testing at the MAC layer was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **405-806-000 : BRCM:TestLoopbackPhysical Test Aborted**

Loopback testing at the physical layer was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **405-807-000 : BRCM:TestLEDs Test Aborted**

Verification of status LEDs was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **405-900-000 : BCM:TestControlRegisters Test Failed**

A failure was detected while testing internal MAC registers

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **405-901-000 : BCM:TestMIRegisters Test Failed**

A failure was detected while testing internal PHY registers.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **405-902-000 : BRCM:TestEEPROM Test Failed**

A failure was detected while testing non-volatile RAM.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **405-903-000 : BRCM:TestInternalMemory Test Failed**

A failure was detected while testing internal memory.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **405-904-000 : BRCM:TestInterrupt Test Failed**

A failure was detected while testing interrupts.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **405-905-000 : BRCM:TestLoopbackMAC Test Failed**

BRCM:TestLoopbackMAC Test Failed.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **405-906-000 : BRCM:TestLoopbackPhysical Test Failed**

A failure was detected during the loopback test at the physical layer.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **405-907-000 : BRCM:TestLEDs Test Failed**

A failure was detected while verifying operation of the status LEDs.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

DSA Brocade test results

The following messages can result when you run the Brocade test.

Test results for the DSA Brocade test

The following messages can result when you run the DSA Brocade test.

• **218-000-000 : Brocade:MemoryTest Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **218-001-000 : Brocade:ExternalLoopbackTest Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **218-002-000 : Brocade:SerdesLoopbackTest Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **218-003-000 : Brocade:PCILoopbackTest Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **218-004-000 : Brocade:ExternalEthLoopbackTest Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **218-005-000 : Brocade:SerdesEthLoopbackTest Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **218-006-000 : Brocade:InternalLoopbackTest Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **218-800-000 : Brocade:MemoryTest Aborted**

The test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **218-801-000 : Brocade:ExternalLoopbackTest Aborted**

The test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **218-802-000 : Brocade:SerdesLoopbackTest Aborted**

The test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **218-803-000 : Brocade:PCILoopbackTest Aborted**

The test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **218-804-000 : Brocade:ExternalEthLoopbackTest Aborted**

The test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **218-805-000 : Brocade:SerdesEthLoopbackTest Aborted**

The test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **218-806-000 : Brocade:InternalLoopbackTest Aborted**

The test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 218-900-000 : Brocade:MemoryTest Failed

A failure was detected while testing the adapter memory.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Rerun the test.
2. Verify whether the firmware is at proper level.
3. Rerun the test.
4. If the problem remains, contact your IBM technical-support representative.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 218-901-000 : Brocade:ExternalLoopbackTest Failed

A failure was detected during the Loopback test.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check cable connections.
2. Rerun the test.
3. Verify whether the firmware is at proper level.
4. Rerun the test.
5. If the problem remains, contact your IBM technical-support representative.

Related links

- [Lenovo Support website](#)

- [Latest level of DSA](#)
- **218-902-000 : Brocade:SerdesLoopbackTest Failed**

A failure was detected during the Loopback test.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Rerun the test.
2. Verify whether the firmware is at proper level.
3. Rerun the test.
4. If the problem remains, contact your IBM technical-support representative.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)
- **218-903-000 : Brocade:PCILoopbackTest Failed**

A failure was detected during the Loopback test.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Rerun the test.
2. Verify whether the firmware is at proper level.
3. Rerun the test.
4. If the problem remains, contact your IBM technical-support representative.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)
- **218-904-000 : Brocade:ExternalEthLoopbackTest Failed**

A failure was detected during the Loopback test.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check or replace SFP/cable.
2. Rerun the test.
3. Verify whether the firmware is at proper level.
4. Rerun the test.
5. If the problem remains, contact your IBM technical-support representative.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **218-905-000 : Brocade:SerdesEthLoopbackTest Failed**

A failure was detected during the Loopback test.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Rerun the test.
2. Verify whether the firmware is at proper level.
3. Rerun the test.
4. If the problem remains, contact your IBM technical-support representative.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **218-906-000 : Brocade:InternalLoopbackTest Failed**

A failure was detected during the Loopback test.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Rerun the test.
2. Verify whether the firmware is at proper level.
3. Rerun the test.
4. If the problem remains, contact your IBM technical-support representative.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

DSA checkpoint panel test results

The following messages can result when you run the checkpoint panel test.

Test results for the DSA checkpoint panel test

The following messages can result when you run the DSA checkpoint panel test.

- **180-000-000 : Check-point Panel Test Passed**

Check-point Panel Test Passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **180-801-000 : Check-point Panel Test Aborted**

Check-point Panel Test Aborted. BMC is unable to verify that the operator information panel cable is connected.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Inspect and reseat operator information panel cable at both ends.
2. Verify that the Baseboard Management Controller (BMC) is working.
3. Run the test again.
4. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 180-901-000 : Check-point Panel Test Failed

Check-point Panel Test Failed. Operator reported incorrect display.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check the operator information panel cabling for loose or broken connections at both ends or damage to the cable.
2. Replace the information panel cable if damage is present.
3. Run the test again.
4. Replace the operator information panel assembly.
5. Run the test again.
6. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

DSA CPU stress test results

The following messages can result when you run the CPU stress test.

Test results for the DSA CPU stress test

The following messages can result when you run the DSA CPU stress test.

• 089-000-000 : CPU Stress Test Passed

CPU Stress Test Passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **089-801-000 : CPU Stress Test Aborted**

CPU Stress Test Aborted. Internal Program Error.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Turn off and restart the system.
2. Make sure that the DSA Diagnostic code is at the latest level.
3. Run the test again.
4. Check system firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component. The latest level firmware for this component can be found in reference to this system type at the IBM Support website.
5. Run the test again.
6. If the system has stopped responding, turn off and restart the system and then run the test again.
7. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **089-802-000 : CPU Stress Test Aborted**

CPU Stress Test Aborted. System resource unavailability error.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Turn off and restart the system.
2. Make sure that the DSA Diagnostic code is at the latest level.
3. Run the test again.
4. Check system firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
5. Run the test again.
6. If the system has stopped responding, turn off and restart the system and then run the test again.
7. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 089-803-000 : CPU Stress Test Aborted

CPU Stress Test Aborted. Memory size is insufficient to run the test. At least 1GB is required.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 089-804-000 : CPU Stress Test Aborted

CPU Stress Test Aborted. User pressed Ctrl-C.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 089-901-000 : CPU Stress Test Failed

CPU Stress Test Failed.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. If the system has stopped responding, turn off and restart the system and then run the test again.
2. Make sure that the DSA Diagnostic code is at the latest level.
3. Run the test again.
4. Check system firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
5. Run the test again.
6. If the system has stopped responding, turn off and restart the system and then run the test again.
7. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

DSA Emulex adapter test results

The following messages can result when you run the Emulex adapter test.

Test results for the DSA Emulex adapter test

The following messages can result when you run the DSA Emulex adapter test.

- **516-000-000 : ELXUCNA: NIC MAC LoopBackTest Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **516-001-000 : ELXUCNA: NIC PHY LoopBackTest Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **516-002-000 : ELXUCNA: ELXUCNA: NIC LED(Beacon)Test Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **516-800-000 : ELXUCNA: NIC MAC LoopBackTest Aborted**

Loopback testing at the MAC layer was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **516-801-000 : ELXUCNA: NIC PHY LoopBackTest Aborted**

Loopback testing at the physical layer was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **516-802-000 : ELXUCNA: ELXUCNA: NIC LED(Beacon)Test Aborted**

Verification of status LEDs was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **516-900-000 : ELXUCNA: NIC MAC LoopBackTest Failed**

A failure was detected during the loopback test at the MAC layer.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **516-901-000 : ELXUCNA: NIC PHY LoopBackTest Failed**

A failure was detected during the loopback test at the physical layer.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **516-902-000 : ELXUCNA: ELXUCNA: NIC LED(Beacon)Test Failed**

A failure was detected while verifying operation of the status LEDs.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

DSA EXA port ping test results

The following messages can result when you run the EXA port ping test.

Test results for the DSA EXA port ping test

The following messages can result when you run the DSA EXA port ping test.

- **401-000-000 : EXA Port Ping Test Passed**

EXA Port Ping Test Passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **401-801-000 : EXA Port Ping Test Aborted**

EXA Port Ping Test Aborted. Unable to get device base address.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Remove power cables, wait for 45 seconds, reconnect and rerun the test.
2. Make sure that the scalability cable connections are as per specification.
3. Make sure that DSA and BIOS/uEFI are at the latest level.
4. If the problem remains, contact your technical-service representative.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **401-802-000 : EXA Port Ping Test Aborted**

EXA Port Ping Test Aborted. Port connections may not be correct.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Remove power cables, wait for 45 seconds, reconnect and rerun the test.
2. Make sure that the scalability cable connections are as per specification.
3. Make sure that DSA and BIOS/uEFI are at the latest level.
4. If the problem remains, contact your technical-service representative.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 401-901-001 : EXA Port Ping Test Failed

EXA Port Ping Test Failed.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Remove power cables, wait for 45 seconds, reconnect and rerun the test.
2. Make sure that the scalability cable connections are as per specification.
3. Check scalability cables for loose connections.
4. Replace the scalability cable(s) for specified port(s).
5. If the problem remains, contact your technical-service representative.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

DSA hard drive test results

The following messages can result when you run the hard drive test.

Test results for the DSA hard drive test

The following messages can result when you run the DSA hard drive test.

• 217-000-000 : HDD Test Passed

HDD Stress Test Passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 217-800-000 : HDD Test Aborted

HDD Test Aborted. The test was canceled.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check cable connections.
2. Rerun the test.
3. Verify that Hard drive supports self test and self test logging.
4. If the problem remains, contact your technical-support representative.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 217-900-000 : HDD Test Failed

HDD Test Failed. The hard drive self-test detected a failure.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check cable connections.
2. Rerun the test.
3. Verify the firmware is at the latest level.
4. Rerun the test.
5. If the problem remains, contact your technical-support representative.

Related links

- [Lenovo Support website](#)

- [Latest level of DSA](#)
-

DSA Intel network test results

The following messages can result when you run the Intel network test.

Test results for the DSA Intel network test

The following messages can result when you run the DSA Intel network test.

- **406-000-000 : IANet:Registers Test Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **406-001-000 : IANet:EEPROM Test Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **406-002-000 : IANet:FIFO Test Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **406-003-000 : IANet:Interrupts Test Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **406-004-000 : IANet:Loopback Test Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **406-800-000 : IANet:Registers Test Aborted**

Registers test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **406-801-000 : IANet:EEPROM Test Aborted**

EEPROM test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **406-802-000 : IANet:FIFO Test Aborted**

FIFO test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **406-803-000 : IANet:Interrupts Test Aborted**

Interrupt test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **406-804-000 : IANet:Loopback Test Aborted**

Loopback test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **406-900-000 : IANet:Registers Test Failed**

A failure was detected during the Registers test.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **406-901-000 : IANet:EEPROM Test Failed**

A failure was detected during the EEPROM test.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.

3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 406-902-000 : IANet:FIFO Test Failed

A failure was detected during the FIFO test.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 406-903-000 : IANet:Interrupts Test Failed

A failure was detected during the Interrupt test.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
2. Rerun the test.
3. Check interrupt assignments in the PCI Hardware section of the DSA Diagnostic Log. If the ethernet device is sharing interrupts, if possible modify the interrupt assignments using F1 Setup to assign a unique interrupt to the device.
4. Rerun the test.

5. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **406-904-000 : IANet:Loopback Test Failed**

A failure was detected during the Loopback test.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check the Ethernet cable for damage and ensure correct cable type and attachment.
2. Check component firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
3. Rerun the test.
4. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

DSA LSI hard drive test results

The following messages can result when you run the LSI hard drive test.

Test results for the DSA LSI hard drive test

The following messages can result when you run the DSA LSI hard drive test.

- **407-000-000 : LSIESG:DiskDefaultDiagnostic Test Passed**

The test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **407-800-000 : LSIESG:DiskDefaultDiagnostic Test Aborted**

The test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **407-900-000 : LSIESG:DiskDefaultDiagnostic Test Failed**

The hard drive self-test detected a failure.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check cable connections.
2. Rerun the test.
3. Verify whether the firmware is at the latest level.
4. Rerun the test.
5. If the problem remains, contact your IBM technical-support representative.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

DSA Mellanox adapter test results

The following messages can result when you run the Mellanox adapter test.

Test results for the DSA Mellanox adapter test

The following messages can result when you run the DSA Mellanox adapter test.

- **408-000-000 : MLNX:MLNX_DiagnosticTestEthernetPort Test Passed**

Port Test Passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **408-001-000 : MLNX:MLNX_DiagnosticTestIBPort Test Passed**

Port Test Passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **408-800-000 : MLNX:MLNX_DiagnosticTestEthernetPort Test Aborted**

Port Test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **408-801-000 : MLNX:MLNX_DiagnosticTestIBPort Test Aborted**

Port Test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **408-900-000 : MLNX:MLNX_DiagnosticTestEthernetPort Test Failed**

Port Test Failed.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Make sure that the physical link of the port under test in the active state.
2. If these condition was met but the test keeps failing the port's adapter might be faulty.
3. Try replacing the adapter and repeating the test.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **408-901-000 : MLNX:MLNX_DiagnosticTestIBPort Test Failed**

Port Test Failed.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Make sure that the physical link of the port under test in the active state and a subnet manager running on the fabric to which the port is attached.
2. If these condition was met but the test keeps failing the port's adapter might be faulty.
3. Try replacing the adapter and repeating the test.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

DSA memory isolation test results

The following messages can result when you run the memory isolation test.

Test results for the DSA memory isolation test

The following messages can result when you run the DSA memory isolation test.

- **201-000-000 : Standalone Memory Test Passed**

Quick/Full Memory Test All CPUs Passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-000-001 : Standalone Memory Test Passed**

Quick/Full Memory Test CPU 1 Passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-000-002 : Standalone Memory Test Passed**

Quick/Full Memory Test CPU 2 Passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-000-003 : Standalone Memory Test Passed**

Quick/Full Memory Test CPU 3 Passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-000-004 : Standalone Memory Test Passed**

Quick/Full Memory Test CPU 4 Passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-811-000 : Standalone Memory Test Aborted**

Unable to Locate SMBIOS key "_SM_".

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-811-001 : Standalone Memory Test Aborted**

Unable to Locate SMBIOS key "_SM_".

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-811-002 : Standalone Memory Test Aborted**

Unable to Locate SMBIOS key "_SM_".

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.

3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 201-811-003 : Standalone Memory Test Aborted

Unable to Locate SMBIOS key "_SM_".

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 201-812-000 : Standalone Memory Test Aborted

Memory test is not supported for this system.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-812-001 : Standalone Memory Test Aborted**

Memory test is not supported for this system.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-812-002 : Standalone Memory Test Aborted**

Memory test is not supported for this system.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-812-003 : Standalone Memory Test Aborted**

Memory test is not supported for this system.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-813-000 : Standalone Memory Test Aborted**

Chipset Error: Can not turn OFF ECC error reporting in CPU.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-813-001 : Standalone Memory Test Aborted**

Chipset Error: Can not turn OFF ECC error reporting in CPU.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-813-002 : Standalone Memory Test Aborted**

Chipset Error: Can not turn OFF ECC error reporting in CPU.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-813-003 : Standalone Memory Test Aborted**

Chipset Error: Can not turn OFF ECC error reporting in CPU.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-814-000 : Standalone Memory Test Aborted**

Chipset Error: Can not disable Scubbing feature for CPU.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-814-001 : Standalone Memory Test Aborted**

Chipset Error: Can not disable Scubbing feature for CPU.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-814-002 : Standalone Memory Test Aborted**

Chipset Error: Can not disable Scubbing feature for CPU.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-814-003 : Standalone Memory Test Aborted**

Chipset Error: Can not disable Scubbing feature for CPU.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.

2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-815-000 : Standalone Memory Test Aborted**

Program Error with Quick Memory Menu Option Selection.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-815-001 : Standalone Memory Test Aborted**

Program Error with Quick Memory Menu Option Selection.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.

4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-815-002 : Standalone Memory Test Aborted**

Program Error with Quick Memory Menu Option Selection.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-815-003 : Standalone Memory Test Aborted**

Program Error with Quick Memory Menu Option Selection.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)

- [Latest level of DSA](#)

- **201-816-000 : Standalone Memory Test Aborted**

Program Error with Full Memory Menu Option Selection.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-816-001 : Standalone Memory Test Aborted**

Program Error with Full Memory Menu Option Selection.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-816-002 : Standalone Memory Test Aborted**

Program Error with Full Memory Menu Option Selection.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-816-003 : Standalone Memory Test Aborted**

Program Error with Full Memory Menu Option Selection.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-818-000 : Standalone Memory Test Aborted**

Unable to Locate SMBIOS key "_SM_".

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-818-001 : Standalone Memory Test Aborted**

Unable to Locate SMBIOS key "_SM_".

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-818-002 : Standalone Memory Test Aborted**

Unable to Locate SMBIOS key "_SM_".

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-818-003 : Standalone Memory Test Aborted**

Unable to Locate SMBIOS key "_SM_".

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-819-000 : Standalone Memory Test Aborted**

The start-end address ranges in the restricted area of the memory.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-819-001 : Standalone Memory Test Aborted**

The start-end address ranges in the restricted area of the memory.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-819-002 : Standalone Memory Test Aborted**

The start-end address ranges in the restricted area of the memory.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.

3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-819-003 : Standalone Memory Test Aborted**

The start-end address ranges in the restricted area of the memory.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-820-000 : Standalone Memory Test Aborted**

Memory Upper limit is less than 16 Mbytes.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-820-001 : Standalone Memory Test Aborted**

Memory Upper limit is less than 16 Mbytes.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-820-002 : Standalone Memory Test Aborted**

Memory Upper limit is less than 16 Mbytes.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-820-003 : Standalone Memory Test Aborted**

Memory Upper limit is less than 16 Mbytes.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-821-000 : Standalone Memory Test Aborted**

Variable range MTRR registers are larger than fixed range MTRR registers.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-821-001 : Standalone Memory Test Aborted**

Variable range MTRR registers are larger than fixed range MTRR registers.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 201-821-002 : Standalone Memory Test Aborted

Variable range MTRR registers are larger than fixed range MTRR registers.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 201-821-003 : Standalone Memory Test Aborted

Variable range MTRR registers are larger than fixed range MTRR registers.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-822-000 : Standalone Memory Test Aborted**

Invalid MTRR service request.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-822-001 : Standalone Memory Test Aborted**

Invalid MTRR service request.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-822-002 : Standalone Memory Test Aborted**

Invalid MTRR service request.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-822-003 : Standalone Memory Test Aborted**

Invalid MTRR service request.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.

2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-824-000 : Standalone Memory Test Aborted**

Node Interleave feature must be OFF. Go to Setup and disable Node Interleave option and then re-run the test.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-824-001 : Standalone Memory Test Aborted**

Node Interleave feature must be OFF. Go to Setup and disable Node Interleave option and then re-run the test.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.

3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-824-002 : Standalone Memory Test Aborted**

Node Interleave feature must be OFF. Go to Setup and disable Node Interleave option and then re-run the test.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-824-003 : Standalone Memory Test Aborted**

Node Interleave feature must be OFF. Go to Setup and disable Node Interleave option and then re-run the test.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.

4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-826-000 : Standalone Memory Test Aborted**

BIOS: Memory Controller has been disabled. Go to Setup and Enable Memory Controller.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-826-001 : Standalone Memory Test Aborted**

BIOS: Memory Controller has been disabled. Go to Setup and Enable Memory Controller.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)

- [Latest level of DSA](#)

- **201-826-002 : Standalone Memory Test Aborted**

BIOS: Memory Controller has been disabled. Go to Setup and Enable Memory Controller.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-826-003 : Standalone Memory Test Aborted**

BIOS: Memory Controller has been disabled. Go to Setup and Enable Memory Controller.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-827-000 : Standalone Memory Test Aborted**

BIOS: ECC function has been disabled by BIOS. Go to Setup and enable ECC generation.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-827-001 : Standalone Memory Test Aborted**

BIOS: ECC function has been disabled by BIOS. Go to Setup and enable ECC generation.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-827-002 : Standalone Memory Test Aborted**

BIOS: ECC function has been disabled by BIOS. Go to Setup and enable ECC generation.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-827-003 : Standalone Memory Test Aborted**

BIOS: ECC function has been disabled by BIOS. Go to Setup and enable ECC generation.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-844-000 : Standalone Memory Test Aborted**

Chipset Error: Problem in masking MSR machine check control MASK registers.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-844-001 : Standalone Memory Test Aborted**

Chipset Error: Problem in masking MSR machine check control MASK registers.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-844-002 : Standalone Memory Test Aborted**

Chipset Error: Problem in masking MSR machine check control MASK registers.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-844-003 : Standalone Memory Test Aborted**

Chipset Error: Problem in masking MSR machine check control MASK registers.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-845-000 : Standalone Memory Test Aborted**

Chipset Error: Problem clearing MSR machine check control registers.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.

3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-845-001 : Standalone Memory Test Aborted**

Chipset Error: Problem clearing MSR machine check control registers.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-845-002 : Standalone Memory Test Aborted**

Chipset Error: Problem clearing MSR machine check control registers.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-845-003 : Standalone Memory Test Aborted**

Chipset Error: Problem clearing MSR machine check control registers.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-859-000 : Standalone Memory Test Aborted**

INVALID XSECSRAT type.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-859-001 : Standalone Memory Test Aborted**

INVALID XSECSRAT type.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-859-002 : Standalone Memory Test Aborted**

INVALID XSECSRAT type.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-859-003 : Standalone Memory Test Aborted**

INVALID XSECSRAT type.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 201-860-000 : Standalone Memory Test Aborted

No OEM0 type 1 found.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 201-860-001 : Standalone Memory Test Aborted

No OEM0 type 1 found.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-860-002 : Standalone Memory Test Aborted**

No OEM0 type 1 found.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-860-003 : Standalone Memory Test Aborted**

No OEM0 type 1 found.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-861-000 : Standalone Memory Test Aborted**

No SRAT type 1 found.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-861-001 : Standalone Memory Test Aborted**

No SRAT type 1 found.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.

2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-861-002 : Standalone Memory Test Aborted**

No SRAT type 1 found.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-861-003 : Standalone Memory Test Aborted**

No SRAT type 1 found.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.

4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-862-000 : Standalone Memory Test Aborted**

No OEM1 structure found.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-862-001 : Standalone Memory Test Aborted**

No OEM1 structure found.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)

- [Latest level of DSA](#)

- **201-862-002 : Standalone Memory Test Aborted**

No OEM1 structure found.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-862-003 : Standalone Memory Test Aborted**

No OEM1 structure found.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-863-000 : Standalone Memory Test Aborted**

No IBMERROR key in OEM1 structure.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-863-001 : Standalone Memory Test Aborted**

No IBMERROR key in OEM1 structure.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-863-002 : Standalone Memory Test Aborted**

No IBMERROR key in OEM1 structure.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-863-003 : Standalone Memory Test Aborted**

No IBMERROR key in OEM1 structure.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-864-000 : Standalone Memory Test Aborted**

No GAS located in OEM1.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 201-864-001 : Standalone Memory Test Aborted

No GAS located in OEM1.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 201-864-002 : Standalone Memory Test Aborted

No GAS located in OEM1.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-864-003 : Standalone Memory Test Aborted**

No GAS located in OEM1.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-865-000 : Standalone Memory Test Aborted**

No XSECSRAT key in OEM0 structure.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.

3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-865-001 : Standalone Memory Test Aborted**

No XSECSRAT key in OEM0 structure.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-865-002 : Standalone Memory Test Aborted**

No XSECSRAT key in OEM0 structure.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-865-003 : Standalone Memory Test Aborted**

No XSECSRAT key in OEM0 structure.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-866-000 : Standalone Memory Test Aborted**

EFI-SAL Invalid parameter from GetMemoryMap function.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-866-001 : Standalone Memory Test Aborted**

EFI-SAL Invalid parameter from GetMemoryMap function.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-866-002 : Standalone Memory Test Aborted**

EFI-SAL Invalid parameter from GetMemoryMap function.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-866-003 : Standalone Memory Test Aborted**

EFI-SAL Invalid parameter from GetMemoryMap function.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-867-000 : Standalone Memory Test Aborted**

EFI/SAL: Buffer not allocated.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-867-001 : Standalone Memory Test Aborted**

EFI/SAL: Buffer not allocated.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-867-002 : Standalone Memory Test Aborted**

EFI/SAL: Buffer not allocated.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-867-003 : Standalone Memory Test Aborted**

EFI/SAL: Buffer not allocated.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-868-000 : Standalone Memory Test Aborted**

EFI/SAL: Buffer allocated in GetMemoryMap too small.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-868-001 : Standalone Memory Test Aborted**

EFI/SAL: Buffer allocated in GetMemoryMap too small.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.

2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-868-002 : Standalone Memory Test Aborted**

EFI/SAL: Buffer allocated in GetMemoryMap too small.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-868-003 : Standalone Memory Test Aborted**

EFI/SAL: Buffer allocated in GetMemoryMap too small.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.

4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-869-000 : Standalone Memory Test Aborted**

EFI/SAL Invalid parameter from GetMemoryMap function.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-869-001 : Standalone Memory Test Aborted**

EFI/SAL Invalid parameter from GetMemoryMap function.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)

- [Latest level of DSA](#)

- **201-869-002 : Standalone Memory Test Aborted**

EFI/SAL Invalid parameter from GetMemoryMap function.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-869-003 : Standalone Memory Test Aborted**

EFI/SAL Invalid parameter from GetMemoryMap function.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-870-000 : Standalone Memory Test Aborted**

CPU Doamin in ACPI not valid.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-870-001 : Standalone Memory Test Aborted**

CPU Doamin in ACPI not valid.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-870-002 : Standalone Memory Test Aborted**

CPU Doamin in ACPI not valid.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-870-003 : Standalone Memory Test Aborted**

CPU Doamin in ACPI not valid.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-871-000 : Standalone Memory Test Aborted**

Data Mis-compare encountered.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-871-001 : Standalone Memory Test Aborted**

Data Mis-compare encountered.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-871-002 : Standalone Memory Test Aborted**

Data Mis-compare encountered.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-871-003 : Standalone Memory Test Aborted**

Data Mis-compare encountered.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-877-000 : Standalone Memory Test Aborted**

BIOS: Sparring in Extended PCI reg. must be OFF. Go to setup and disable sparring.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.

3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 201-877-001 : Standalone Memory Test Aborted

BIOS: Sparing in Extended PCI reg. must be OFF. Go to setup and disable sparing.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 201-877-002 : Standalone Memory Test Aborted

BIOS: Sparing in Extended PCI reg. must be OFF. Go to setup and disable sparing.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-877-003 : Standalone Memory Test Aborted**

BIOS: Sparing in Extended PCI reg. must be OFF. Go to setup and disable sparing.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-878-000 : Standalone Memory Test Aborted**

Sparing feature must be turned OFF. Go to setup and turn the sparing feature OFF.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-878-001 : Standalone Memory Test Aborted**

Sparing feature must be turned OFF. Go to setup and turn the sparing feature OFF.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-878-002 : Standalone Memory Test Aborted**

Sparing feature must be turned OFF. Go to setup and turn the sparing feature OFF.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-878-003 : Standalone Memory Test Aborted**

Sparing feature must be turned OFF. Go to setup and turn the sparing feature OFF.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 201-885-000 : Standalone Memory Test Aborted

Processor does not support MTRR register manipulation. Can not write to memory without cache.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 201-885-001 : Standalone Memory Test Aborted

Processor does not support MTRR register manipulation. Can not write to memory without cache.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-885-002 : Standalone Memory Test Aborted**

Processor does not support MTRR register manipulation. Can not write to memory without cache.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-885-003 : Standalone Memory Test Aborted**

Processor does not support MTRR register manipulation. Can not write to memory without cache.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-886-000 : Standalone Memory Test Aborted**

Memory Upper limit is less than 16 Mbytes.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **201-886-001 : Standalone Memory Test Aborted**

Memory Upper limit is less than 16 Mbytes.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.

2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-886-002 : Standalone Memory Test Aborted**

Memory Upper limit is less than 16 Mbytes.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-886-003 : Standalone Memory Test Aborted**

Memory Upper limit is less than 16 Mbytes.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.

4. Make sure that DSA and BIOS/uEFI are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-899-000 : Standalone Memory Test Aborted**

Memory Diagnostics Test Aborted by user.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-899-001 : Standalone Memory Test Aborted**

Memory Diagnostics Test Aborted by user.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-899-002 : Standalone Memory Test Aborted**

Memory Diagnostics Test Aborted by user.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-899-003 : Standalone Memory Test Aborted**

Memory Diagnostics Test Aborted by user.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-901-000 : Standalone Memory Test Failed**

Memory Diagnostics Test Failed.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.
5. Replace any DIMMS(s) mentioned in error, one by one.
6. Make sure that all DIMMs are enabled in the Configuration/Setup Utility program.
7. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-901-001 : Standalone Memory Test Failed**

Memory Diagnostics Test Failed.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.
5. Replace any DIMMS(s) mentioned in error, one by one.
6. Make sure that all DIMMs are enabled in the Configuration/Setup Utility program.
7. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-901-002 : Standalone Memory Test Failed**

Memory Diagnostics Test Failed.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.
5. Replace any DIMMS(s) mentioned in error, one by one.
6. Make sure that all DIMMs are enabled in the Configuration/Setup Utility program.
7. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **201-901-003 : Standalone Memory Test Failed**

Memory Diagnostics Test Failed.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Perform the actions mentioned one at a time and try the test after each action.
2. If the problem remains, contact your technical-service representative.
3. Turn off the system and disconnect it from power. Wait for 45 seconds. Reseat DIMM(s). Reconnect it to power.
4. Make sure that DSA and BIOS/uEFI are at the latest level.
5. Replace any DIMMS(s) mentioned in error, one by one.
6. Make sure that all DIMMs are enabled in the Configuration/Setup Utility program.
7. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

DSA memory stress test results

The following messages can result when you run the memory stress test.

Test results for the DSA memory stress test

The following messages can result when you run the DSA memory stress test.

- **202-000-000 : MemStr Test Passed**

Test Passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **202-801-000 : MemStr Test Aborted**

Internal program error.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Turn off and restart the system.
2. Make sure that the DSA Diagnostic code is at the latest level.
3. Run the test again.
4. If the system has stopped responding, turn off and restart the system.
5. Check the system firmware level and upgrade if necessary.
6. Run the memory diagnostic to identify the specific failing DIMM.
7. If the failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **202-802-000 : MemStr Test Aborted**

Memory size is insufficient to run the test. At least 1 GB is required.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **202-803-000 : MemStr Test Aborted**

User pressed Ctrl-C.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **202-901-000 : MemStr Test Failed**

Test Failed.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Execute the standard DSA memory diagnostics to validate all memory.
2. Make sure that the DSA Diagnostic code is at the latest level.
3. Turn off the system and disconnect it from power.
4. Reseat the memory cards and DIMMs.
5. Reconnect the system to power and turn the system on.
6. Run the test again.
7. Execute the standard DSA memory diagnostics to validate all memory.
8. If the failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **202-902-000 : MemStr Test Failed**

Memory size is insufficient to run the test.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Ensure that all memory is enabled by checking the "Available System Memory" in the "Resource Utilization" section of the DSA Diagnostic Event log.

2. If necessary, access the Configuration/Setup Utility program by pressing F1 during system boot and enable all memory.
3. Make sure that the DSA Diagnostic code is at the latest level.
4. Run the test again.
5. Execute the standard DSA memory diagnostics to validate all memory.
6. If the failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

DSA Nvidia GPU test results

The following messages can result when you run the Nvidia GPU test.

Test results for the DSA Nvidia GPU test

The following messages can result when you run the DSA Nvidia GPU test.

- **409-000-000 : NVIDIA User Diagnostic Test Passed**

NVIDIA User Diagnostic test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **409-003-000 : Nvidia::DiagnosticServiceProvider::Bandwidth Test Passed**

Nvidia GPU Bandwidth test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **409-004-000 : Nvidia::DiagnosticServiceProvider::Query Test Passed**

Nvidia GPU Query test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **409-005-000 : Nvidia::DiagnosticServiceProvider::Matrix Test Passed**

Nvidia GPU Matrix test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **409-006-000 : Nvidia::DiagnosticServiceProvider::Binomial Test Passed**

Nvidia GPU Binomial test passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **409-800-000 : NVIDIA User Diagnostic Test Aborted**

NVIDIA User Diagnostic test was canceled.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **409-803-000 : Nvidia::DiagnosticServiceProvider::Bandwidth Test Aborted**

Nvidia GPU Bandwidth test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **409-804-000 : Nvidia::DiagnosticServiceProvider::Query Test Aborted**

Nvidia GPU Query test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **409-805-000 : Nvidia::DiagnosticServiceProvider::Matrix Test Aborted**

Nvidia GPU Matrix test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **409-806-000 : Nvidia::DiagnosticServiceProvider::Binomial Test Aborted**

Nvidia GPU Binomial test was canceled.

Recoverable

No

Severity

Warning

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **409-900-000 : NVIDIA User Diagnostic Test Failed**

NVIDIA User Diagnostic Test Failed.

Recoverable

No

Severity

Event

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Verify that the GPU is seated in the PCIe slot correctly by reseating the GPU. Then power cycle the system.
2. Verify that the power connectors to the GPU are connected firmly. Then power cycle the system.
3. Run nvidia-smi -q In some cases this will report a poorly connected power cable.
4. Rerun the diagnostics, using the same GPU, on system that is known to be working. A variety of system issues can cause diagnostic failure.
5. If the problem remains, contact your IBM technical-support representative.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **409-903-000 : Nvidia::DiagnosticServiceProvider::Bandwidth Test Failed**

Nvidia GPU Bandwidth Test Failed.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Verify that the GPU is seated in the PCIe slot correctly by reseating the GPU. Then power cycle the system.
2. Verify that the power connectors to the GPU are connected firmly. Then power cycle the system.
3. Run nvidia-smi -q In some cases this will report a poorly connected power cable.
4. Rerun the diagnostics, using the same GPU, on system that is known to be working. A variety of system issues can cause diagnostic failure.
5. If the problem remains, contact your IBM technical-support representative.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **409-904-000 : Nvidia::DiagnosticServiceProvider::Query Test Failed**

Nvidia GPU Query Test Failed.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Verify that the GPU is seated in the PCIe slot correctly by reseating the GPU. Then power cycle the system.
2. Verify that the power connectors to the GPU are connected firmly. Then power cycle the system.
3. Run nvidia-smi -q In some cases this will report a poorly connected power cable.
4. Rerun the diagnostics, using the same GPU, on system that is known to be working. A variety of system issues can cause diagnostic failure.
5. If the problem remains, contact your IBM technical-support representative.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **409-905-000 : Nvidia::DiagnosticServiceProvider::Matrix Test Failed**

Nvidia GPU Matrix Test Failed.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Verify that the GPU is seated in the PCIe slot correctly by reseating the GPU. Then power cycle the system.
2. Verify that the power connectors to the GPU are connected firmly. Then power cycle the system.
3. Run nvidia-smi -q In some cases this will report a poorly connected power cable.
4. Rerun the diagnostics, using the same GPU, on system that is known to be working. A variety of system issues can cause diagnostic failure.
5. If the problem remains, contact your IBM technical-support representative.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **409-906-000 : Nvidia::DiagnosticServiceProvider::Binomial Test Failed**

Nvidia GPU Binomial Test Failed.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Verify that the GPU is seated in the PCIe slot correctly by reseating the GPU. Then power cycle the system.
2. Verify that the power connectors to the GPU are connected firmly. Then power cycle the system.
3. Run nvidia-smi -q In some cases this will report a poorly connected power cable.
4. Rerun the diagnostics, using the same GPU, on system that is known to be working. A variety of system issues can cause diagnostic failure.
5. If the problem remains, contact your IBM technical-support representative.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

DSA optical drive test results

The following messages can result when you run the optical drive test.

Test results for the DSA optical drive test

The following messages can result when you run the DSA optical drive test.

- **215-000-000 : Optical Drive Test Passed**

Optical Drive Test Passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **215-801-000 : Optical Drive Test Aborted**

Optical Drive Test Aborted. Unable to communicate with driver.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Make sure that the DSA Diagnostic code is at the latest level.
2. Run the test again.
3. Check the drive cabling for loose or broken connections at both ends or damage to the cable. Replace the cable if damage is present.
4. Run the test again.
5. Check system firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
6. Run the test again.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **215-802-000 : Optical Drive Test Aborted**

Optical Drive Test Aborted. A read error was encountered.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Insert a new CD or DVD into the drive and wait for 15 seconds for the media to be recognized. Rerun the test.
2. Check the drive cabling for loose or broken connections at both ends or damage to the cable. Replace the cable if damage is present.
3. Run the test again.
4. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **215-803-000 : Optical Drive Test Failed**

Optical Drive Test Failed. Disk may be in use by the operating system.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Wait for the system activity to cease
2. Run the test again
3. Turn off and restart the system.
4. Run the test again.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **215-804-000 : Optical Drive Test Aborted**

Optical Drive Test Aborted. The media tray is open.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Close the media tray and wait for 15 seconds for the media to be recognized. Run the test again.
2. Insert a new CD or DVD into the drive and wait for 15 seconds for the media to be recognized. Rerun the test.
3. Check the drive cabling for loose or broken connections at both ends or damage to the cable. Replace the cable if damage is present.
4. Run the test again.
5. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **215-901-000 : Optical Drive Test Aborted**

Optical Drive Test Aborted. Drive media is not detected.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Insert a new CD or DVD into the drive and wait for 15 seconds for the media to be recognized. Rerun the test.
2. Check the drive cabling for loose or broken connections at both ends or damage to the cable. Replace the cable if damage is present.
3. Run the test again.
4. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **215-902-000 : Optical Drive Test Failed**

Optical Drive Test Failed. Read miscompare.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Insert a new CD or DVD into the drive and wait for 15 seconds for the media to be recognized. Rerun the test.
2. Check the drive cabling for loose or broken connections at both ends or damage to the cable. Replace the cable if damage is present.
3. Run the test again.
4. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **215-903-000 : Optical Drive Test Aborted**

Optical Drive Test Aborted. Could not access the device.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Insert a new CD or DVD into the drive and wait for 15 seconds for the media to be recognized. Rerun the test.
2. Check the drive cabling for loose or broken connections at both ends or damage to the cable. Replace the cable if damage is present.
3. Run the test again.
4. Check system firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
5. Run the test again.
6. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

DSA system management test results

The following messages can result when you run the system management test.

Test results for the DSA system management test

The following messages can result when you run the DSA system management test.

- **166-000-001 : IMM I2C Test Passed**

IMM I2C Test Passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **166-801-001 : IMM I2C Test Aborted**

IMM returned incorrect response length.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **166-802-001 : IMM I2C Test Aborted**

Test cannot be completed for unknown reason.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **166-803-001 : IMM I2C Test Aborted**

Node Busy. Try later.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **166-804-001 : IMM I2C Test Aborted**

Invalid Command.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **166-805-001 : IMM I2C Test Aborted**

Invalid Command for given LUN.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **166-806-001 : IMM I2C Test Aborted**

Timeout while processing command.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **166-807-001 : IMM I2C Test Aborted**

Out of space.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **166-808-001 : IMM I2C Test Aborted**

Reservation Canceled or Invalid Reservation ID.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **166-809-001 : IMM I2C Test Aborted**

Request data truncated.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)

- [Latest level of DSA](#)
- **166-810-001 : IMM I2C Test Aborted**

Request data length invalid.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
 - [Latest level of DSA](#)
- **166-811-001 : IMM I2C Test Aborted**

Request data field length limit exceeded.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
 - [Latest level of DSA](#)
- **166-812-001 : IMM I2C Test Aborted**

Parameter out of range.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **166-813-001 : IMM I2C Test Aborted**

Cannot return number of requested data bytes.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **166-814-001 : IMM I2C Test Aborted**

Requested Sensor, data, or record not present.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **166-815-001 : IMM I2C Test Aborted**

Invalid data field in Request.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **166-816-001 : IMM I2C Test Aborted**

Command illegal for specified sensor or record type.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **166-817-001 : IMM I2C Test Aborted**

Command response could not be provided.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **166-818-001 : IMM I2C Test Aborted**

Cannot execute duplicated request.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **166-819-001 : IMM I2C Test Aborted**

Command response could not be provided. SDR Repository in?update mode.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **166-820-001 : IMM I2C Test Aborted**

Command response could not be provided. Device in firmware update mode.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **166-821-001 : IMM I2C Test Aborted**

Command response could not be provided. BMC initialization in progress.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **166-822-001 : IMM I2C Test Aborted**

Destination unavailable.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **166-823-001 : IMM I2C Test Aborted**

Cannot execute command. Insufficient privilege level.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **166-824-001 : IMM I2C Test Aborted**

Cannot execute command.

Recoverable

No

Severity

Warning

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **166-903-001 : IMM I2C Test Failed**

IMM Indicates failure in LM92 -- PIB Thermal Sensor bus (BUS 2)

Recoverable

No

Severity
Error

Serviceable
Yes

Automatically notify support
No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.
3. Run the test again.
4. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **166-904-001 : IMM I2C Test Failed**

IMM Indicates failure in in LM92 -- Ambient Thermal Sensor I2C bus (BUS 3).

Recoverable
No

Severity
Error

Serviceable
Yes

Automatically notify support
No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.
3. Run the test again.
4. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **166-905-001 : IMM I2C Test Failed**

IMM Indicates failure in PSOC -- On Board PSOC IC I2C Switch bus (BUS 4).

Recoverable
No

Severity
Error

Serviceable

Yes

Automatically notify support

No

User Response

Perform the actions mentioned one at a time and try the test after each action:

1. Turn off the system and disconnect it from power. Wait for 45 seconds. Reconnect it to power.
2. Make sure that DSA and BMC/IMM are at the latest level.
3. Run the test again.
4. If failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

DSA tape drive test results

The following messages can result when you run the tape drive test.

Test results for the DSA tape drive test

The following messages can result when you run the DSA tape drive test.

- **264-000-000 : Tape Test Passed**

Tape Test Passed.

Recoverable

No

Severity

Event

Serviceable

No

Automatically notify support

No

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **264-901-000 : Tape Test Failed**

An error was found in the tape alert log.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Clean the tape drive using the appropriate cleaning media and install new media.
2. Run the test again.
3. Clear the error log.
4. Run the test again.
5. Make sure that the drive firmware is at the latest level.
6. Rerun the test after upgrading to the latest firmware level.
7. If the failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 264-902-000 : Tape Test Failed

Tape Test Failed. Media is not detected.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Clean the tape drive using the appropriate cleaning media and install new media.
2. Run the test again.
3. Make sure that the drive firmware is at the latest level.
4. Rerun the test after upgrading to the latest firmware level.
5. If the failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• 264-903-000 : Tape Test Failed

Tape Test Failed. Media is not detected.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Clean the tape drive using the appropriate cleaning media and install new media.
2. Run the test again.
3. Make sure that the drive firmware is at the latest level.
4. Rerun the test after upgrading to the latest firmware level.
5. If the failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **264-904-000 : Tape Test Failed**

Tape Test Failed. Drive hardware error.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Check the tape drive cabling for loose or broken connections or damage to the cable. Replace the cable if damage is present.
2. Clean the tape drive using the appropriate cleaning media and install new media.
3. Run the test again.
4. Make sure that the drive firmware is at the latest level.
5. Rerun the test after upgrading to the latest firmware level.
6. If the failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

- **264-905-000 : Tape Test Failed**

Tape Test Failed. Software error: invalid request.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. If the system has stopped responding, turn off and restart the system.
2. Check the system firmware level and upgrade if necessary. The installed firmware level can be found in the DSA Diagnostic Event Log within the Firmware/VPD section for this component.
3. Run the test again.
4. If the system has stopped responding, turn off and restart the system.
5. Make sure that the drive firmware is at the latest level.
6. Run the test again.
7. If the failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **264-906-000 : Tape Test Failed**

Tape Test Failed. Unrecognized error.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Clean the tape drive using the appropriate cleaning media and install new media.
2. Run the test again.
3. Make sure that the drive firmware is at the latest level.
4. Rerun the test after upgrading to the latest firmware level.
5. Make sure that the DSA Diagnostic code is at the latest level.
6. Run the test again.
7. Check the system firmware level and upgrade if necessary.
8. Run the test again.
9. If the failure remains, refer to "Troubleshooting by symptom" in the system "Installation and Service Guide" for the next corrective action.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **264-907-000 : Tape Test Failed**

An error was found in the block address somewhere.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Clean the tape drive using the appropriate cleaning media and install new media.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

• **264-908-000 : Tape Test Failed**

An error was found in getting tape capacity.

Recoverable

No

Severity

Error

Serviceable

Yes

Automatically notify support

No

User Response

Complete the following steps:

1. Make sure that medium is present.
2. Clean the tape drive using the appropriate cleaning media and install new media.

Related links

- [Lenovo Support website](#)
- [Latest level of DSA](#)

Appendix D. Getting help and technical assistance

If you need help, service, or technical assistance or just want more information about Lenovo products, you will find a wide variety of sources available from Lenovo to assist you.

Use this information to obtain additional information about Lenovo and Lenovo products, and determine what to do if you experience a problem with your Lenovo system or optional device.

Note: This section includes references to IBM web sites and information about obtaining service. IBM is Lenovo's preferred service provider for the System x, Flex System, and NeXtScale System products.

Before you call

Before you call, make sure that you have taken these steps to try to solve the problem yourself.

If you believe that you require warranty service for your Lenovo product, the service technicians will be able to assist you more efficiently if you prepare before you call.

- Check all cables to make sure that they are connected.
- Check the power switches to make sure that the system and any optional devices are turned on.
- Check for updated software, firmware, and operating-system device drivers for your Lenovo product. The Lenovo Warranty terms and conditions state that you, the owner of the Lenovo product, are responsible for maintaining and updating all software and firmware for the product (unless it is covered by an additional maintenance contract). Your service technician will request that you upgrade your software and firmware if the problem has a documented solution within a software upgrade.
- If you have installed new hardware or software in your environment, check <http://www.lenovo.com/serverproven/> to make sure that the hardware and software is supported by your product.
- Go to <http://www.lenovo.com/support> to check for information to help you solve the problem.
- Gather the following information to provide to the service technician. This data will help the service technician quickly provide a solution to your problem and ensure that you receive the level of service for which you might have contracted.
 - Hardware and Software Maintenance agreement contract numbers, if applicable
 - Machine type number (Lenovo 4-digit machine identifier)
 - Model number
 - Serial number
 - Current system UEFI and firmware levels
 - Other pertinent information such as error messages and logs
- Go to http://www.ibm.com/support/entry/portal/Open_service_request to submit an Electronic Service Request. Submitting an Electronic Service Request will start the process of determining a solution to your problem by making the pertinent information available to the service technicians. The IBM service technicians can start working on your solution as soon as you have completed and submitted an Electronic Service Request.

You can solve many problems without outside assistance by following the troubleshooting procedures that Lenovo provides in the online help or in the Lenovo product documentation. The Lenovo product documentation also describes the diagnostic tests that you can perform. The documentation for most systems, operating systems, and programs contains troubleshooting procedures and explanations of error messages and error codes. If you suspect a software problem, see the documentation for the operating system or program.

Using the documentation

Information about your Lenovo system and preinstalled software, if any, or optional device is available in the product documentation. That documentation can include printed documents, online documents, readme files, and help files.

See the troubleshooting information in your system documentation for instructions for using the diagnostic programs. The troubleshooting information or the diagnostic programs might tell you that you need additional or updated device drivers or other software. Lenovo maintains pages on the World Wide Web where you can get the latest technical information and download device drivers and updates. To access these pages, go to <http://www.lenovo.com/support>.

Getting help and information from the World Wide Web

Up-to-date information about Lenovo products and support is available on the World Wide Web.

On the World Wide Web, up-to-date information about Lenovo systems, optional devices, services, and support is available at <http://www.lenovo.com/support>. The most current version of the product documentation is available in the following product-specific Information Centers:

Flex System products:<http://pic.dhe.ibm.com/infocenter/flexsys/information/index.jsp>

System x products:<http://shop.lenovo.com/us/en/systems/>

NeXtScale System products:<http://pic.dhe.ibm.com/infocenter/nxtscale/documentation/index.jsp>

How to send DSA data

You can use the Enhanced Customer Data Repository to send diagnostic data to IBM.

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

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

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

Creating a personalized support web page

You can create a personalized support web page by identifying Lenovo products that are of interest to you.

To create a personalized support web page, go to <http://www.ibm.com/support/mynotifications>. From this personalized page, you can subscribe to weekly email notifications about new technical documents, search for information and downloads, and access various administrative services.

Software service and support

Through IBM Support Line, you can get telephone assistance, for a fee, with usage, configuration, and software problems with your Lenovo products.

For more information about Support Line and other IBM services, see <http://www.ibm.com/services> or see <http://www.ibm.com/planetwide> for support telephone numbers. In the U.S. and Canada, call 1-800-IBM-SERV (1-800-426-7378).

Hardware service and support

IBM is Lenovo's preferred service provider for the System x, Flex System and NeXtScale System products.

You can receive hardware service through your Lenovo reseller or from IBM. To locate a reseller authorized by Lenovo to provide warranty service, go to <http://www.ibm.com/partnerworld> and click **Business Partner Locator**. For IBM support telephone numbers, see <http://www.ibm.com/planetwide>. In the U.S. and Canada, call 1-800-IBM-SERV (1-800-426-7378).

In the U.S. and Canada, hardware service and support is available 24 hours a day, 7 days a week. In the U.K., these services are available Monday through Friday, from 9 a.m. to 6 p.m.

Taiwan product service

Use this information to contact product service for Taiwan.

委製商/進口商名稱: 台灣聯想環球科技股份有限公司
進口商地址: 台北市南港區三重路 66 號 8 樓
進口商電話: 0800-000-702

Appendix E. Notices

Lenovo may not offer the products, services, or features discussed in this document in all countries. Consult your local Lenovo representative for information on the products and services currently available in your area.

Any reference to a Lenovo product, program, or service is not intended to state or imply that only that Lenovo product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any Lenovo intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any other product, program, or service.

Lenovo may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document is not an offer and does not provide a license under any patents or patent applications. You can send inquiries in writing to the following:

*Lenovo (United States), Inc.
1009 Think Place
Morrisville, NC 27560
U.S.A.
Attention: Lenovo VP of Intellectual Property*

LENOVO PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. Lenovo may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

The products described in this document are not intended for use in implantation or other life support applications where malfunction may result in injury or death to persons. The information contained in this document does not affect or change Lenovo product specifications or warranties. Nothing in this document shall operate as an express or implied license or indemnity under the intellectual property rights of Lenovo or third parties. All information contained in this document was obtained in specific environments and is presented as an illustration. The result obtained in other operating environments may vary.

Lenovo may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Any references in this publication to non-Lenovo Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this Lenovo product, and use of those Web sites is at your own risk.

Any performance data contained herein was determined in a controlled environment. Therefore, the result obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Trademarks

Lenovo, the Lenovo logo, Flex System, System x, NeXtScale System, and x Architecture are trademarks of Lenovo in the United States, other countries, or both.

Intel and Intel Xeon are trademarks of Intel Corporation in the United States, other countries, or both.

Internet Explorer, Microsoft, and Windows are trademarks of the Microsoft group of companies.

Linux is a registered trademark of Linus Torvalds.

Other company, product, or service names may be trademarks or service marks of others.

Important notes

Processor speed indicates the internal clock speed of the microprocessor; other factors also affect application performance.

CD or DVD drive speed is the variable read rate. Actual speeds vary and are often less than the possible maximum.

When referring to processor storage, real and virtual storage, or channel volume, KB stands for 1 024 bytes, MB stands for 1 048 576 bytes, and GB stands for 1 073 741 824 bytes.

When referring to hard disk drive capacity or communications volume, MB stands for 1 000 000 bytes, and GB stands for 1 000 000 000 bytes. Total user-accessible capacity can vary depending on operating environments.

Maximum internal hard disk drive capacities assume the replacement of any standard hard disk drives and population of all hard-disk-drive bays with the largest currently supported drives that are available from Lenovo.

Maximum memory might require replacement of the standard memory with an optional memory module.

Each solid-state memory cell has an intrinsic, finite number of write cycles that the cell can incur. Therefore, a solid-state device has a maximum number of write cycles that it can be subjected to, expressed as total bytes written (TBW). A device that has exceeded this limit might fail to respond to system-generated commands or might be incapable of being written to. Lenovo is not responsible for replacement of a device that has exceeded its maximum guaranteed number of program/erase cycles, as documented in the Official Published Specifications for the device.

Lenovo makes no representations or warranties with respect to non-Lenovo products. Support (if any) for the non-Lenovo products is provided by the third party, not Lenovo.

Some software might differ from its retail version (if available) and might not include user manuals or all program functionality.

Recycling information

Lenovo encourages owners of information technology (IT) equipment to responsibly recycle their equipment when it is no longer needed. Lenovo offers a variety of programs and services to assist equipment owners in recycling their IT products. For information on recycling Lenovo products, go to: <http://www.lenovo.com/recycling>.



US & Canada Only



US & Canada Only

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 27. 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>	

Telecommunication regulatory statement

This product may not be certified in your country for connection by any means whatsoever to interfaces of public telecommunications networks. Further certification may be required by law prior to making any such connection. Contact a Lenovo representative or reseller for any questions.

Electronic emission notices

When you attach a monitor to the equipment, you must use the designated monitor cable and any interference suppression devices that are supplied with the monitor.

Federal Communications Commission (FCC) statement

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Lenovo is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that might cause undesired operation.

Industry Canada Class A emission compliance statement

This Class A digital apparatus complies with Canadian ICES-003.

Avis de conformité à la réglementation d'Industrie Canada

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Australia and New Zealand Class A statement

Attention: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

European Union EMC Directive conformance statement

This product is in conformity with the protection requirements of EU Council Directive 2014/30/EU on the approximation of the laws of the Member States relating to electromagnetic compatibility. Lenovo cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the installation of option cards from other manufacturers.

This product has been tested and found to comply with the limits for Class A equipment according to European Standards harmonized in the Directives in compliance. The limits for Class A equipment were derived for commercial and industrial environments to provide reasonable protection against interference with licensed communication equipment.

Lenovo, Einsteinova 21, 851 01 Bratislava, Slovakia



Warning: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Germany Class A statement

Deutschsprachiger EU Hinweis: Hinweis für Geräte der Klasse A EU-Richtlinie zur Elektromagnetischen Verträglichkeit

Deutschsprachiger EU Hinweis: Hinweis für Geräte der Klasse A EU-Richtlinie zur Elektromagnetischen Verträglichkeit Dieses Produkt entspricht den Schutzanforderungen der EU-Richtlinie 2014/30/EU zur Angleichung der Rechtsvorschriften über die elektromagnetische Verträglichkeit in den EU-Mitgliedsstaaten und hält die Grenzwerte der Klasse A der Norm gemäß Richtlinie.

Um dieses sicherzustellen, sind die Geräte wie in den Handbüchern beschrieben zu installieren und zu betreiben. Des Weiteren dürfen auch nur von der Lenovo empfohlene Kabel angeschlossen werden. Lenovo übernimmt keine Verantwortung für die Einhaltung der Schutzanforderungen, wenn das Produkt ohne Zustimmung der Lenovo verändert bzw. wenn Erweiterungskomponenten von Fremdherstellern ohne Empfehlung der Lenovo gesteckt/eingebaut werden.

Deutschland:

Einhaltung des Gesetzes über die elektromagnetische Verträglichkeit von Betriebsmitteln Dieses Produkt entspricht dem „Gesetz über die elektromagnetische Verträglichkeit von Betriebsmitteln“ EMVG (früher „Gesetz über die elektromagnetische Verträglichkeit von Geräten“). Dies ist die Umsetzung der EU-Richtlinie 2014/30/EU in der Bundesrepublik Deutschland.

Zulassungsbescheinigung laut dem Deutschen Gesetz über die elektromagnetische Verträglichkeit von Betriebsmitteln, EMVG vom 20. Juli 2007 (früher Gesetz über die elektromagnetische Verträglichkeit von Geräten), bzw. der EMV EU Richtlinie 2014/30/EU, für Geräte der Klasse A.

Dieses Gerät ist berechtigt, in Übereinstimmung mit dem Deutschen EMVG das EG-Konformitätszeichen - CE - zu führen. Verantwortlich für die Konformitätserklärung nach Paragraph 5 des EMVG ist die Lenovo (Deutschland) GmbH, Meitnerstr. 9, D-70563 Stuttgart.

Informationen in Hinsicht EMVG Paragraph 4 Abs. (1) 4: **Das Gerät erfüllt die Schutzanforderungen nach EN 55024 und EN 55032 Klasse A.**

Nach der EN 55032: „Dies ist eine Einrichtung der Klasse A. Diese Einrichtung kann im Wohnbereich Funkstörungen verursachen; in diesem Fall kann vom Betreiber verlangt werden, angemessene Maßnahmen durchzuführen und dafür aufzukommen.“

Nach dem EMVG: „Geräte dürfen an Orten, für die sie nicht ausreichend entstört sind, nur mit besonderer Genehmigung des Bundesministers für Post und Telekommunikation oder des Bundesamtes für Post und Telekommunikation betrieben werden. Die Genehmigung wird erteilt, wenn keine elektromagnetischen Störungen zu erwarten sind.“ (Auszug aus dem EMVG, Paragraph 3, Abs. 4). Dieses Genehmigungsverfahren ist nach Paragraph 9 EMVG in Verbindung mit der entsprechenden Kostenverordnung (Amtsblatt 14/93) kostenpflichtig.

Anmerkung: Um die Einhaltung des EMVG sicherzustellen sind die Geräte, wie in den Handbüchern angegeben, zu installieren und zu betreiben.

Japanese electromagnetic compatibility statements

Japan VCCI Class A statement

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波障害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。 V C C I - A

Korea Communications Commission (KCC) statement

이 기기는 업무용(A급)으로 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

This is electromagnetic wave compatibility equipment for business (Type A). Sellers and users need to pay attention to it. This is for any areas other than home.

Russia Electromagnetic Interference (EMI) Class A statement

ВНИМАНИЕ!

Настоящее изделие относится к оборудованию класса А. При использовании в бытовой обстановке это оборудование может нарушать функционирование других технических средств в результате создаваемых промышленных радиопомех. В этом случае от пользователя может потребоваться принятие адекватных мер.

People's Republic of China Class A electronic emission statement

声 明

此为 A 级产品。在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对其干扰采取切实可行的措施。

Taiwan Class A compliance statement

警告使用者：
這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

Taiwan BSMI RoHS declaration

單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛Lead (Pb)	汞Mercury (Hg)	鎘Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr ⁶⁺)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
機架	○	○	○	○	○	○
外部蓋板	○	○	○	○	○	○
機械組零件	-	○	○	○	○	○
空氣傳動設備	-	○	○	○	○	○
冷卻組零件	-	○	○	○	○	○
內存模塊	-	○	○	○	○	○
處理器模塊	-	○	○	○	○	○
電纜組零件	-	○	○	○	○	○
電源	-	○	○	○	○	○
儲備設備	-	○	○	○	○	○
電路卡	-	○	○	○	○	○
光碟機	-	○	○	○	○	○
雷射器	-	○	○	○	○	○
<p>備考1. “超出0.1 wt%”及“超出0.01 wt%”係指限用物質之百分比含量超出百分比含量基準值。 Note1: “exceeding 0.1wt%” and “exceeding 0.01 wt%” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.</p> <p>備考2. “○”係指該項限用物質之百分比含量未超出百分比含量基準值。 Note2: “○”indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.</p> <p>備考3. “-”係指該項限用物質為排除項目。 Note3: The “-” indicates that the restricted substance corresponds to the exemption.</p>						

Index

A

- a hard disk drive (HDD)/solid state drive (SSD) 155
- ABR, automatic boot recovery 86
- ac power LED 16
- AC power-supply
 - LEDs 60
- AC power-supply LEDs 60
- acoustical noise emissions 5
- applying current firmware
 - using best practices 21
- ASM event log 63
- assertion event, system-event log 62
- assistance, getting 889
- attention notices 5
- Australia Class A statement 896
- automatic boot recovery (ABR) 86
- availability, server 12

B

- backup firmware
 - starting 40
- battery
 - remove 160
 - replace 162
- bays 5
- before you install a legacy operating system 33
- best practices
 - use to apply current firmware and device-driver updates 21
- blue-screen capture feature
 - overview 42
- blue-screen feature 42
- Boot Manager 40
- Boot Manager program 32
- Brocade documentation 4
- Business Partners instructions 21

C

- cache 5
- call home feature
 - Lenovo Electronic Service Agent 67
- call home tools 67
- Canada Class A electronic emission statement 896
- caution statements 5
- chassis management module 8
- check log LED 14
- checkout procedure 56
 - performing 56
- China Class A electronic emission statement 898
- Class A electronic emission notice 896
- collecting data 53
- components
 - Fan and power controller 16
 - power supply 17
 - server 22, 89
- configuration
 - information 31
 - instructions 31
 - Nx-boot failure 86
 - ServerGuide Setup and Installation CD 31
 - Setup utility 31
- configuration programs 32
- configuring
 - Ethernet controller 45

- RAID arrays 45
 - with ServerGuide 33
- configuring hardware 32
- configuring your server 31
- connector
 - USB 14
- connectors
 - Ethernet 16
 - front of server 14
 - internal 24
 - on the rear of the server 16
 - power supply 16
 - rear 16
 - serial 16
 - USB 16
 - video 16
- connectors, internal system board 24
- contamination, particulate and gaseous 5, 895
- controller
 - Ethernet 8
 - memory 8
 - video 8
- controls, LEDs, and power 14
- copper water loop, remove 172
- copper water loop, replace 176
- cover, remove 144
- cover, replace 144
- creating a personalized support web page 890
- custom support web page 890

D

- danger statements 5
- data collection 53
- dc power LED 16
- deassertion event, system-event log 62
- device drivers 40
- devices
 - installing 21
- devices, static-sensitive
 - handling guidelines 30
- diagnostic
 - on-board programs, starting 66
 - tools, overview 57
- diagnostic codes and messages
 - POST/UEFI 735
- diagnostics
 - program overview 65
- diagnostics, light path 59
- dimensions 5
- dimmm
 - install 146
- DIMM, install 149
- DIMMs
 - removal 145
- display problems 72
- distribution board
 - removing 167
- documentation
 - Documentation Browser 3
 - Documentation CD 3
 - using 890
- documentation cd 3
- documentation, Brocade 4
- documentation, updated
 - finding 4
- drive 5

- DSA 21
 - edition 65
 - program, overview 65
 - test log, viewing 67
 - text message format 67
- DSA data
 - how to send to Lenovo 22
- DSA log 62–63
- DSA Portable 57, 65
- DSA Preboot 57, 65
- DSA, sending data 890
- DVD
 - drive activity LED 14
 - drive DVD LED 14
 - eject button 14
- Dynamic System Analysis 21

E

- electrical input 5
- electronic emission Class A notice 896
- embedded hypervisor
 - using 44
- enabling
 - Features on Demand
 - Ethernet software 45
 - RAID software 45
- environment 5–6
- error codes and messages
 - Integrated Management Module 2.1 (IMM2.1) 217
- error messages 67
- error messages, Integrated Management Module 2.1 (IMM2.1) 217
- error symptoms
 - general 68
 - hypervisor flash device 68
 - intermittent 69
 - keyboard 69
 - memory 70
 - microprocessor 71
 - monitor 72
 - mouse 69
 - network connection 75
 - optional devices 75
 - power 76
 - serial port 78
 - ServerGuide 78
 - software 79
 - USB port 80
 - USB-device 69
 - video 72
- errors
 - format, DSA code 67
- Ethernet 16
 - controller 80
 - link status LED 16
- Ethernet activity
 - LED 16
- Ethernet connector 16
- Ethernet controller 8
- Ethernet controller configuration 32
- Ethernet controller, configure 45
- European Union EMC Directive conformance statement 896
- event log 62
 - viewing 63
- event log, POST 62
- event log, system 62
- event logs
 - clearing 64
- event logs, methods for viewing 63
- events, Integrated Management Module 2.1 (IMM2.1) 217
- expansion bays 5

F

- fan
 - simple-swap 5
- Fan and power controller
 - bay 16
 - indicators and controls 16
 - overview 16
- FCC Class A notice 896
- features 5
 - ServerGuide 33
- features, compute node 8
- filler, tray bay 142
- finding
 - updated documentation 4
- firmware updates 1, 28
- firmware updates best practices 21
- firmware, server, recovering 83
- firmware, updating 31
- front view
 - connectors 14
 - LED location 14
- front view of the server 14

G

- gaseous contamination 5, 895
- general
 - problems 68
- Germany Class A statement 897
- guidelines
 - options installation 28
 - system reliability 29

H

- handling static-sensitive devices 30
- hard disk drive
 - activity LED 14
 - specifications 8
 - status LED 14
 - support 8
- hard disk drive (HDD)/solid state drive (SSD)
 - removing 153
- hard disk drives
 - specifications 8
 - support 8
- hardware requirements 3
- hardware service and support telephone numbers 891
- hardware, configuring 32
- head output 5
- help
 - from the World Wide Web 890
 - from World Wide Web 890
 - sending diagnostic data 890
 - sources of 889
- hot-swap power supply
 - remove 163
- hot-swap power supply, replace 165
- how to send DSA data to Lenovo 22
- humidity 5–6
- hypervisor flash device
 - problems 68

I

- IMM2 32
- IMM2 heartbeat
 - LED 61
- IMM2.1 host name 43
- IMM2.1 web interface 43

- important notices 5, 894
- in-band
 - automated boot recovery method 86
 - manual recovery method 84
- indicators and controls
 - Fan and power controller 16
 - power supply 17
- information center 890
- installation 1
- installation guidelines 28
- installing
 - dimmm 146
 - DIMM 149
 - memory 146
 - midplane 203
 - water-cooled technology tray 142
- installing options 21
- instructions for Lenovo Business Partners 21
- integrated baseboard management controller 19
- integrated functions 5
- Integrated functions 6
- integrated management module
 - using 41
- Integrated Management Module 2.1 (IMM2.1) error messages 217
- Integrated Management Module 2.1 (IMM2.1) events 217
- integrated management module II
 - event log 62–63
 - programs 32
- intermittent
 - problems 69
- internal connectors 24
- internal, system board connectors 24
- introduction 1
- IP address for the IMM2.1 43
- IPMI event log 62–63
- IPMItool 63

J

- Japanese electromagnetic compatibility statements 898
- jumper
 - UEFI boot recovery 83
- jumpers
 - system board 25

K

- Korea Class A electronic emission statement 898

L

- LED
 - ac power 16
 - dc power 16
 - DVD drive activity 14
 - Ethernet activity 16
 - Ethernet-link status 16
 - hard disk drive activity 14
 - hard disk drive status 14
 - IMM2 heartbeat 61
 - power supply error 16
 - RTMM heartbeat 61
- LEDs
 - AC power-supply 60
 - Fan and power controller 16
 - front of server 14
 - on the system board 27
 - power supply 17
 - power-supply 60

- legacy operating system
 - requirement 33
- Lenovo Advanced Settings Utility program
 - overview 46
- Lenovo Electronic Service Agent 67
- Lenovo Systems Director
 - updating 46
- Lenovo XClarity Administrator 11
- light path diagnostics 59
- load-sharing
 - power throttling 8
- locator LED 14
- logging 43

M

- manifold, remove 101
- manifold, replace 120
- memory
 - install 146
 - specifications 5
 - UDIMM 146
- memory module
 - removing 145
 - specifications 8
- menu choices
 - Setup utility 35
- messages, diagnostic
 - POST/UEFI 735
- method 86
- methods, viewing event logs 63
- microprocessor
 - problems 71
 - specifications 5
- midplane
 - installing 203
 - removing 193
- Mobile access to Lenovo Service Information website 10
- model name
 - location 82

N

- New Zealand Class A statement 896
- NMI button 16
- noise emissions 5
- NOS installation
 - with ServerGuide 34
 - without ServerGuide 34
- notes 5
- notes, important 894
- notices 893
 - electronic emission 896
 - FCC, Class A 896
- notices and statements 5
- Nx-boot failure 86
- nx360
 - introduction 1

O

- obtaining 43
- online documentation 1
- online publications 4
- operating system 3
- operating-system event log 62–63
- optional device problems 75
- optional drive cage
 - removing 151
 - replacing 152

- options
- installing 21
- out-of-band 86

P

- particulate contamination 5, 895
- parts listing 89
- parts, structural 94, 97
- PCI
 - slot 1 16
 - slot 2 16
- PCI expansion slots 5
- People's Republic of China Class A electronic emission statement 898
- policy option 41
- POST
 - event log 63
- POST event log 62
- POST, intro 64
- POST/UEFI
 - diagnostic codes 735
- power 41
 - power-control button 14
 - requirement 5
 - specifications 5
 - supply 5
 - throttling 8
- power cords 98
- power distribution board
 - replacing 170
- power features
 - of the server 19
- power problems 76, 80
- power supplies 6
- power supply 5
 - overview 17
- power-control button 14
- power-on LED 19
- power-on self-test 64
- power-supply LEDs 60
- power-supply LEDs 60
- problems
 - Ethernet controller 80
 - general 68
 - hypervisor flash device 68
 - intermittent 69
 - keyboard 69
 - memory 70
 - microprocessor 71
 - monitor 72
 - mouse 69
 - network connection 75
 - optional devices 75
 - power 76, 80
 - serial port 78
 - ServerGuide 78
 - software 79
 - undetermined 81
 - USB port 80
 - video 72
- procedure, checkout 56
- product service, Taiwan 891
- publications, Brocade 4

R

- RAID arrays
 - configuring 45
- RAS features, server 12
- rear view 16

- of the server 16
- recovering the server firmware 83
- Redundant
 - Ethernet capabilities 12
 - hot-swap power supplies 12
- reliability, server 12
- remote presence feature
 - using 42
- removing
 - battery 160
 - copper water loop 172
 - cover 144
 - distribution board 167
 - hard disk drive (HDD)/solid state drive (SSD) 153
 - hot-swap power supply 163
 - manifold 101
 - memory modules 145
 - midplane 193
 - optional drive cage 151
 - second microprocessor 182
 - server components 101
 - system board 189
 - the optional PCI or ML2 158
 - Tier 1 CRUs 145
 - water-cooled technology tray 141
- removing and replacing
 - removing
 - structural parts 144
 - server components 101
 - structural parts 144
 - Tier 1 CRUs 145
 - removing, DIMMs 145
- Replaceable server components 89
- replacing
 - a hard disk drive (HDD)/solid state drive (SSD) 155
 - battery 162
 - copper water loop 176
 - cover 144
 - hot-swap power supply 165
 - manifold 120
 - optional drive cage 152
 - power distribution board 170
 - second microprocessor 186
 - server components 101
 - structural parts 144
 - system board 191
 - the optional PCI or ML2 158
 - Tier 1 CRUs 145
 - Tier 2 CRUs 167
- requirements
 - hardware 3
 - software 3
- reset button 14
- returning
 - component 101
 - device 101
- RTMM heartbeat
 - LED 61
- Russia Class A electronic emission statement 898

S

- safety v
- Safety Information 5
- safety statements v-vi
- second microprocessor, remove 182
- second microprocessor, replace 186
- sending diagnostic data 890
- sending DSA data
 - to Lenovo 22
- serial connector 16
- serial number
 - location 82

- serial port problems 78
- server
 - power features 19
 - turn off 19
 - turn on 19
- server , backup firmware
 - starting 40
- server components 22, 89
- server controls, LEDs, and power 14
- server firmware, recovering 83
- server rear view 16
- server shutdown 19
- server, front view 14
- ServerGuide
 - features 33
 - NOS installation 34
 - setup 33
 - Setup and Installation CD 31
 - using 33
- ServerGuide CD 8
- serverproven 28
- service and support
 - before you call 889
 - hardware 891
 - software 890
- service bulletins 55
- serviceability, server 12
- Setup utility 31–32
 - menu choices 35
 - starting 34
 - using 34
- shutting down the server 19
- size 5
- slots
 - PCI expansion 5
- software problems 79
- software requirements 3
- software service and support telephone numbers 890
- specifications 5
- standby mode 19
- starting
 - Setup utility 34
 - the backup firmware 40
- statements and notices 5
- static-sensitive devices
 - handling guidelines 30
- structural parts 94, 97
- support web page, custom 890
- SW1 switch block description 25
- switch block 25
- switches
 - system board 25
- system board
 - internal connectors 24
 - LEDs 27
 - switches and jumpers 25
- system board internal connectors 24
- system board, remove 189
- system board, replace 191
- system event log 63
- system pulse LEDs 61
- system reliability guidelines 29
- system-error LED 14
- system-event log 62
- system-event log, assertion event 62
- system-event log, deassertion event 62
- Systems Director
 - systems management tool 13
- Systems Director, Lenovo
 - systems management tool 13
- systems management 8
 - chassis management module 8
- systems management tool
 - Systems Director 13

T

- Taiwan BSMI RoHS declaration 899
- Taiwan Class A electronic emission statement 899
- Taiwan product service 891
- telecommunication regulatory statement 895
- telephone numbers 890–891
- temperature 5–6
- test log, viewing 67
- the optional PCI or ML2 adapter, remove 158
- the optional PCI or ML2 adapter, replace 158
- Tier 1 CRUs, replace 145
- Tier 2 CRUs, replacement 167
- TOE 5
- tools, call home 67
- tools, diagnostic 57
- ToolsCenter for System x and BladeCenter 28
- trademarks 894
- tray bay filler 142
- troubleshooting 53
 - symptom 68
- turning off the server 19
 - integrated baseboard management controller 19
- turning on the server 19

U

- UDIMM
 - requirement 146
- UEFI
 - boot recovery jumper 83
- Unbuffered DIMM 146
- undetermined problems 81
- undocumented problems 55
- United States FCC Class A notice 896
- Universal Serial Bus (USB) problems 80
- UpdateXpress 31, 40
- updating
 - firmware 31
 - Lenovo Systems Director 46
 - Systems Director, Lenovo 46
 - Universal Unique Identifier (UUID) 47, 49
- USB
 - connector 14, 16
- using
 - embedded hypervisor 44
 - integrated management module 41
 - Setup utility 34
 - the remote presence feature 42
- using best practices
 - to apply firmware and device-driver updates 21
- Utility program
 - Lenovo Advanced Settings 46
- utility, Setup 32
 - starting 34
 - using 34

V

- video connector
 - rear 16
- video controller, integrated
 - specifications 5
- viewing event log 63
- VMware Hypervisor support 32

W

- Wake on LAN feature 19
- water-cooled technology tray
 - installing 142

removing 141

weight 5



Part Number: SP47A31725

Printed in China

(1P) P/N: SP47A31725

