ThinkSystem SR650 V4
Messages and Codes Reference

Machine Types: 7DGC, 7DGD, 7DGE, 7DGF, 7DLN, 7DK2

Note

Before using this information and the product it supports, be sure to read and understand the safety information and the safety instructions, which are available at:
https://pubs.lenovo.com/safety_documentation/

In addition, be sure that you are familiar with the terms and conditions of the Lenovo warranty for your server, which can be found at:
http://datacentersupport.lenovo.com/warrantylookup

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Contents

Chapter 1. Messages

When attempting to resolve issues with your server, the best practice is to begin with the event log of the application that is managing the server.

- If you are managing the server from the Lenovo XClarity Administrator, begin with the Lenovo XClarity Administrator event log.
- If you are using some other management application, begin with the Lenovo XClarity Controller event log.

The event log contains server hardware events that are recorded by the Lenovo XClarity Controller or by UEFI. In addition, events can be generated when you perform diagnostic testing on hard drives or memory through the Lenovo XClarity Provisioning Manager (although these events are not stored in the event log).

Use this section to view the events that can be generated by Lenovo XClarity Controller, UEFI, or the Lenovo XClarity Provisioning Manager. For each event, a user action is available to help you understand what must be done to resolve the issue.

Important:

- The server supports Lenovo XClarity Controller 3 (XCC3). For additional information about Lenovo XClarity Controller 3 (XCC3), refer to https://pubs.lenovo.com/lxcc-overview/.
- Lenovo XClarity Provisioning Manager (LXPM) supported version varies by product. All versions of Lenovo XClarity Provisioning Manager are referred to as Lenovo XClarity Provisioning Manager and LXPM in this document, unless specified otherwise. To see the LXPM version supported by your server, go to https://pubs.lenovo.com/lxpm-overview/.

Event and alert message format

You can use the following content to help you understand the event and alert message format.

The following information is provided for each event message.

Event identifier

A string that uniquely identifies the event or class of events. This is a 12 character string in the following format:
`FQX`*ppnnxxxxc*

where:

- *pp* indicates the product where the event originate, as follows.
  - **CM**. Chassis Management.
  - **HM**. Hardware manager.
  - **PM**. XClarity Provisioning manger - LXPM (LEPT).
  - **SF**. System Firmware.
  - **SP**. Service Processor.
- *nn* identifies the component or system management where the event originated, as follows:

  Components
  - **AA**. Canister/Appliance - Contains system components not expected to be serviced by a customer.
  - **CA**. Cooling - Fans, blowers, mux cards, policies, chillers/refrigeration, water management units, water pumps, water filtration, air flow sensors, thermal monitors.

- **DA**. Display - Graphics adapters, op panel, monitor/console (including front/back panel, control panel, LCD panel etc).
- **IO**. I/O connectivity - PCI/USB hub, bridge, bus, risers, configuration settings, interconnect, keyboard, mouse, KVM.
- **MA**. Memory - Includes DIMMs, memory card, configuration settings, memory controller, redundant modes (mirroring, spare, etc), RAID memory, NVRAM, EPROM.
- **PU**. Processing - Involves the processor, processor cards and system board, configuration settings, and microcode, cache, Trusted Computing Module, processor interconnect (QPI cables).
- **PW**. Power - Can be power supplies, VRMs, VRDs, voltage levels, system power state, policies, batteries, AT power width, TPMD, power controllers, external power, Battery Backup Unit (UPS), PDUs.
- **SB**. System Board - Main system board, associated risers, system planar, mid-planes, backplanes, interconnects.
- **SD**. Client Data Storage Device - Flash storage adapters, drives, cd/dvd drives, SSD, SAS, DASD, Flash storage, tape, volumes, remoteCopy, flashCopy, managed Storage Systems.
- **SR**. Storage RAID - Adapters, configuration, settings, interconnect, arrays, drive enclosures.
- **VD**. VPD - Configuration settings, EPROMs, communication.

Systems Management - FSM, PSM, HMC, FDMC UEFI, CMM, IOMC, CCE, PMC, DPSM, SVC, management of storage, services, IMM, FSP, systems management networking.

- **BR**. Systems Management - Backup/Restore & Failover (HA).
- **BT**. System management - Boot, reboot, hard/warm reset, shutdown.
- **CL**. LEPT Clone.
- **CN**. Systems Management - Console.
- **CP**. Systems Management - Config Patterns.
- **CR**. Systems Management - Core / Virtual Appliance.
- **DD**. Device Driver - AIX, IBM I, Subsystem Device Driver (SDD), IPMI Service.
- **DM**. Systems Management - Data Management.
- **EA**. Vendor Events.
- **EM**. Events Monitoring - LEPT Dash Board.
- **EM**. Systems Management - Events / Monitoring.
- **FC**. Systems Management - FlexCat OS/Config deployment.
- **FW**. System management - Firmware.
- **HA**. Hypervisor - Virtual Components, Boots, Crashes, SRIOV, LPARs.
- **IF**. Interconnect (Fabric) - common, podm, icm, lrim (SWFW major, various minors & functions).
- **II**. Interconnect (Interfaces) - cimp, smis, cli, mapi (SCFG major).
- **IM**. Interconnect (PCI Manager) - pcim (SWFW major, various minors and functions).
- **IN**. Interconnect (Networking) - bos, ethm, fcf, npiv (FCF major plus SWFW major, various minors & functions) data network, network settings, ports, security, adapters, switches, fiber channel, optical ports, Ethernet.
- **IP**. Interconnect (PIE) - tbd.
- **IU**. Interconnect (Utilities / Infrastructure) - util, infr, serv, isds (IBIS major), remote copy (storage).
- **NM**. Network Management - LEPT Welcompage.
- **NM**. Systems Management - Network Management.
- **OH**. OS/Hypervisor Interface - Passing of error logs, partition management, services (time, etc).
- **OS**. LEPT OS Deploy.
- **OS**. OS - Power Linux, AIX IPL, AIX, crash and dump codes, IBM i kernal code, IBM i OS, management of storage.
- **PR**. System management - Entity presence.
- **RC**. Systems Management - Remote Control.
- **SD**. LEPT Storage Test.
- **SE**. Systems Management - Security.
- **SR**. LEPT Raid Setup.
- **SS**. Service & Support - LEPT FFDC Collection.
- **SS**. Systems Management - Service & Support.

  - **TR**. Time Reference - RTC, Master clock, drawer clocks, NTP.
  - **UN**. Unknown/any entity.
  - **UP**. LEPT Firmware Update.
  - **UP**. Systems Management - Updates.
  - **WD**. System management - Watchdog.
- *xxxx* is an incrementing number of the Sub-System events set.
- *c* identifies the severity, as follows.
  - **A**. Reserved as Immediate Action.
  - **B**. Unknown / No action.
  - **D**. Reserved - Immediate Decision.
  - **E**. Reserved - Eventual Action.
  - **F**. Warning / No Action.
  - **G**. Warning / Deferred Action.
  - **H**. Minor / Deferred Action.
  - **I**. Information / No Action.
  - **J**. Minor / Immediate Action.
  - **K**. Major / Deferred Action.
  - **L**. Major / Immediate Action.
  - **M**. Critical / Immediate Action.
  - **N**. Fatal / Immediate Action.
  - **W**. Reserved - System Wait.

Chapter 2. XClarity Controller events

When a hardware event is detected by the Lenovo XClarity Controller on the server, the Lenovo XClarity Controller writes that event in the system-event log on the server.

Notes: Event identifier (ID) is a unique identifier used to search for XCC events. The event message may have one or more arguments, which could be replaceable text of FRU name or sensor name to identify the failed component. So one XCC event ID could represent a generic event or similar faults that happened on different hardware components. The general way of problem determination is to locate the event by ID, identify the hardware component by message argument if it contains hardware component name, and then perform actions defined in User Action.

Example:

`FQXSPCA0017M: Sensor [SensorElementName] has transitioned to critical from a less severe state`
where:

- `FQXSPCA0017M` is the event ID.
- *[SensorElementName]* is a sensor variable, indicating the name of hardware component. It can be CPU, PCI adapter, OCP card or chipset. You can find the event by the event ID `FQXSPCA0017M` and perform actions defined in User Action for the component.

For additional information about the Lenovo XClarity Controller event log, see “Viewing Event Logs” section in the XCC documentation compatible with your server at https://pubs.lenovo.com/lxcc-overview/.

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. 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, which include but not limited to the following:

- *[SensorElementName]*, *[ManagedElementName]* , *[ProcessorElementName]*, *[ComputerSystemElementName]*, *[PowerSupplyElementName]*, ...
- *[arg1]*, *[arg2]*, *[arg3]*, *[arg4]*, *[arg5]*...

Explanation
Provides additional information to explain why the event occurred.

Severity
An indication of the level of concern for the condition. The following severities can be displayed.

- **Informational**. 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*, where:

- *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
You can configure the Lenovo XClarity Administrator to automatically notify Support (also known as call home) if certain types of errors are encountered. If you have configured this function and this field is set to Yes, 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.

Note: This documentation includes references to IBM web sites, products, and information about obtaining service. IBM is Lenovo's preferred service provider for the Lenovo server products.

For more information about enabling Call Home from Lenovo XClarity Administrator, see https://pubs.lenovo.com/lxca/admin_setupcallhome. In addition, see "XCC events that automatically notify Support" on page 6 for a consolidated list of all Lenovo XClarity Controller events that are called home to Lenovo Support.

User Action
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. If you cannot solve the problem after performing all steps, contact Lenovo Support.

XCC events that automatically notify Support

You can configure the XClarity Administrator to automatically notify Support (also known as *call home*) if certain types of errors are encountered. If you have configured this function, see the table for a list of events that automatically notify Support.

Table 1. Events that automatically notify Support

Event ID	Message String
FQXSPCA0002M	Fan [NumericSensorName] going low (lower critical) has asserted.
FQXSPCA0016M	Fan Mismatch has transitioned to critical from a less severe state.
FQXSPIO0011N	An Uncorrectable Error has occurred on PCIs.
FQXSPIO0027M	Fault in M2 adapter(serial number: [SerialNumber]) on system [ComputerSystemName].
FQXSPIO0031M	PCIe devices have fault.
FQXSPPU0016N	An Uncorrectable Error has occurred on CPUs.
FQXSPPW0003L	Power supply [PowerSupplyId] in the enclosure/chassis (MTM-SN: [MachineSerialNumber])has failed.

Table 1. Events that automatically notify Support (continued)

Event ID	Message String
FQXSPPW0035M	[SysBrdVol] going low (lower critical) has asserted.
FQXSPPW0047M	[SysBrdVol] going high (upper critical) has asserted.
FQXSPPW0063M	SysBrd voltage fault has transitioned to critical from a less severe state.
FQXSPSD0001L	The [DriveName] has a fault.
FQXSPSD0002G	Failure Predicted on [DriveName].
FQXSPSD0002L	Drive [DriveLocation] in the enclosure/chassis(MTM-SN: [MachineSerialNumber]) has a fault.
FQXSPSD0003G	Failure Predicted on drive [DriveLocation] in the enclosure/chassis (MTM-SN: [MachineSerialNumber]).
FQXSPSS4004I	Test Call Home Generated by user [arg1] from [arg2] at IP address [arg3].

XCC events organized by severity

The following table lists all XCC events, organized by severity (Information, Error, and Warning).

Table 2. Events organized by severity

Event ID	Message String	Severity
FQXSPBR4000I	Management Controller [arg1]: Configuration restored from a file by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPBR4002I	Management Controller [arg1] Reset was caused by restoring default values.	Informational
FQXSPBR4004I	Server timeouts set by user [arg1]: EnableOSWatchdog=[arg2], OSWatchdogTimout=[arg3], EnableLoaderWatchdog=[arg4], LoaderTimeout=[arg5] from [arg6] at IP address [arg7].	Informational
FQXSPBR4005I	Management Controller [arg1]: Configuration saved to a file by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPBR4006I	Management Controller [arg1]: Configuration restoration from a file by user [arg2] completed from [arg3] at IP address [arg4].	Informational
FQXSPBR4009I	Management Controller [arg1]: cloning configuration from neighbor server [arg2] by group name [arg3].	Informational
FQXSPBR400AI	Management Controller [arg1]: cloning configuration from neighbor server [arg2] by group name [arg3] completed.	Informational
FQXSPBR400BI	Management Controller [arg1]: cloning configuration from neighbor server [arg2] by group name [arg3] failed to complete.	Informational
FQXSPBR400CI	Management Controller [arg1]: cloning configuration from neighbor server [arg2] by group name [arg3] failed to start.	Informational
FQXSPBR400DI	Neighbor group clone configuration was initiated by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPBR400EI	Neighbor group firmware update was initiated by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPBR400FI	The neighbor group management is [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational

Table 2. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSPCA0012I	Fan mismatch is recovered.	Informational
FQXSPCA0013I	PCIe [SensorName] overtemperature has transitioned to normal state.	Informational
FQXSPCA2000I	Fan [NumericSensorName] going low (lower non-critical) has deasserted.	Informational
FQXSPCA2002I	Fan [NumericSensorName] going low (lower critical) has deasserted.	Informational
FQXSPCA2007I	Ambient temperature going high (upper non-critical) has deasserted.	Informational
FQXSPCA2009I	Ambient temperature going high (upper critical) has deasserted.	Informational
FQXSPCA2011I	Ambient temperature going high (upper non-recoverable) has deasserted.	Informational
FQXSPCA2016I	Fan Mismatch has transitioned to a less severe state from critical.	Informational
FQXSPCA2017I	PCIe [SensorName] overtemperature has transitioned to a less severe state from critical.	Informational
FQXSPCA2019I	PCIe [SensorName] overtemperature has deasserted the transition to non-recoverable from a less severe state.	Informational
FQXSPCA2042I	Liquid leak detector for [DeviceType] is recovered.	Informational
FQXSPCA2046I	DIMM [DIMMId] temperature going high (upper non-critical) has deasserted.	Informational
FQXSPCA2047I	DIMM [DIMMId] temperature going high (upper critical) has deasserted.	Informational
FQXSPCA2048I	DIMM [DIMMId] temperature going high (upper non-recoverable) has deasserted.	Informational
FQXSPCA2049I	Pump tach [pumpFanIndex] going high (upper non-critical) has deasserted.	Informational
FQXSPCA2050I	Pump tach [pumpFanIndex] going high (upper critical) has deasserted.	Informational
FQXSPCA2051I	Pump tach [pumpFanIndex] going high (upper non-recoverable) has deasserted.	Informational
FQXSPCA2052I	Pump tach [pumpFanIndex] going low (lower critical) has deasserted.	Informational
FQXSPCN4000I	Serial Redirection set by user [arg1]: Mode=[arg2], BaudRate=[arg3], StopBits=[arg4], Parity=[arg5], SessionTerminateSequence=[arg6] from [arg7] at IP address [arg8].	Informational
FQXSPCN4002I	User [arg1] has terminated an active CLI console session from [arg2] at IP address [arg3].	Informational
FQXSPCN4004I	User [arg1] has created an active [arg2] console session from [arg3] at IP address [arg4].	Informational
FQXSPCN4005I	A [arg1] console session is timeout.	Informational
FQXSPCN4006I	User [arg1] has terminated an active IPMI console session from [arg2] at IP address [arg3].	Informational
FQXSPDM4000I	Inventory data changed for device [arg1], new device data hash= [arg2], new master data hash=[arg3].	Informational

Table 2. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSPDM4003I	TKLM servers set by user [arg1]: TKLMServer1=[arg2] Port=[arg3], TKLMServer2=[arg4] Port=[arg5], TKLMServer3=[arg6] Port=[arg7], TKLMServer4=[arg8] Port=[arg9] from [arg10] at IP address [arg11].	Informational
FQXSPDM4004I	TKLM servers device group set by user [arg1]: TKLMServerDeviceGroup=[arg2] from [arg3] at IP address [arg4].	Informational
FQXSPDM4005I	User [arg1] has generated a new encryption key pair and installed a self-signed certificate for the TKLM client from [arg2] at IP address [arg3].	Informational
FQXSPDM4006I	User [arg1] has generated a new encryption key and certificate signing request for the TKLM client from [arg2] at IP address [arg3].	Informational
FQXSPDM4007I	User [arg1] has imported a signed certificate for the TKLM client from [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPDM4008I	User [arg1] has imported a server certificate for the TKLM server from [arg2] at IP address [arg3].	Informational
FQXSPDM4009I	User [arg1] has [arg2] file [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPDM4010I	Inventory data collecting and processing complete for [arg1], sequence number is [arg2].	Informational
FQXSPDM4011I	EKMS server protocol set by user [arg1]: TKLMServerProtocol=[arg2] from [arg3] at IP address [arg4].	Informational
FQXSPDM4012I	User [arg1] has changed the polling configuration for the key management server: Polling enabled=[arg2], interval=[arg3].	Informational
FQXSPDM4013I	User [arg1] has changed the caching configuration for the key management server: Caching enabled=[arg2], timeout=[arg3].	Informational
FQXSPEA2003I	Link up is detected on port [[1]] of the PCIe device [[2]] in slot [[3]].	Informational
FQXSPEM0003I	The Log [RecordLogName] has been cleared.	Informational
FQXSPEM0004I	The Log [RecordLogName] is full.	Informational
FQXSPEM0005I	The Log [RecordLogName] is almost full.	Informational
FQXSPEM2004I	The Log [RecordLogName] is no longer full.	Informational
FQXSPEM4000I	The [arg1] on system [arg2] cleared by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPEM4003I	LED [arg1] state changed to [arg2] by [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPEM4004I	SNMP [arg1] enabled by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPEM4005I	SNMP [arg1] disabled by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPEM4006I	Alert Configuration Global Event Notification set by user [arg1]: RetryLimit=[arg2], RetryInterval=[arg3], EntryInterval=[arg4] from [arg5] at IP address [arg6].	Informational
FQXSPEM4007I	Alert Recipient Number [arg1] by syslog is updated: Name=[arg2], DeliveryMethod=[arg3], Address=[arg4], IncludeLog=[arg5], Enabled=[arg6], EnabledAlerts=-crt<[arg7]> -wrn<[arg8]> -sys<[arg9]> by user [arg10] from [arg11] at IP address [arg12].	Informational

Table 2. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSPEM4008I	SNMP Traps enabled by user [arg1]: EnabledAlerts=-crt<[arg2]> -wrn<[arg3]> -sys<[arg4]> from [arg5] at IP address [arg6].	Informational
FQXSPEM4009I	The UEFI Definitions have been changed.	Informational
FQXSPEM4011I	XCC failed to log previous event [arg1].	Informational
FQXSPEM4012I	User [arg1] made system [arg2] Encapsulation lite Mode from [arg3] at IP address [arg4].	Informational
FQXSPEM4028I	The port [arg1] of PCIe device [arg2] has link [arg3].	Informational
FQXSPEM4031I	SSD wear [arg1] threshold setting is changed from [arg2] to [arg3] by user [arg4] from [arg5] at IP address [arg6].	Informational
FQXSPEM4041I	The SmartNIC in slot [arg1] encountered boot timeout.	Informational
FQXSPEM4042I	The SmartNIC in slot [arg1] went through a crash dump.	Informational
FQXSPEM4046I	Alert Recipient Number [arg1] by email is updated: Name=[arg2], DeliveryMethod=[arg3], EmailAddress=[arg4], IncludeLog=[arg5], Enabled=[arg6], EnabledAlerts=-crt<[arg7]> -wrn<[arg8]> -sys<[arg9] > by user [arg10] from [arg11] at IP address [arg12].	Informational
FQXSPEM4047I	LED [arg1] state changed to [arg2] with physical button.	Informational
FQXSPFC4000I	The bare metal connection process has been started.	Informational
FQXSPFC4001I	The bare metal update application reports a status of [arg1].	Informational
FQXSPFW0003I	The System [ComputerSystemName] encountered firmware progress.	Informational
FQXSPFW0004I	UEFI advanced memory test is running.	Informational
FQXSPFW0005I	UEFI advanced memory test is completed.	Informational
FQXSPFW0006I	UEFI advanced memory test is interrupted.	Informational
FQXSPFW0007I	UEFI advanced memory test encountered a hang.	Informational
FQXSPFW2001I	The System [ComputerSystemName] has detected a POST Error deassertion - firmware(BIOS) ROM corruption detected.	Informational
FQXSPIO0000I	The connector [PhysicalConnectorName] has been detected as present or connected.	Informational
FQXSPIO0005N	An I/O Channel Check NMI has occurred on system [ComputerSystemName].	Informational
FQXSPIO0010I	A Correctable Bus Error has occurred on bus [BusName].	Informational
FQXSPIO0032I	Device [DeviceType] [DeviceIndex] is installed.	Informational
FQXSPIO0033I	Device [DeviceType] [DeviceIndex] is uninstalled	Informational
FQXSPIO0034I	Connector [ConnectorName] is linked to [DeviceType] [DeviceIndex].	Informational
FQXSPIO2004I	Bus [BusName] has recovered from a bus timeout.	Informational
FQXSPIO2005I	System [ComputerSystemName] has recovered from I/O Channel Check NMI.	Informational
FQXSPIO2006I	System [ComputerSystemName] has recovered from software NMI.	Informational
FQXSPIO2010I	Bus [BusName] has recovered from a Correctable Bus Error.	Informational

Table 2. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSPIO2011I	PCIs has recovered from an Uncorrectable Error.	Informational
FQXSPIO2013I	Bus [BusName] has recovered from a Fatal Bus Error.	Informational
FQXSPIO2014I	Bus [BusName] is no longer operating in a degraded state.	Informational
FQXSPIO2027I	Fault condition removed in M2 adapter(serial number: [SerialNumber]) on system [ComputerSystemName].	Informational
FQXSPIO2031I	Fault condition removed All PCIe devices on system [ComputerSystemName].	Informational
FQXSPMA0025I	BMC LAN failover from dedicate to shared.	Informational
FQXSPMA2010I	DIMM [DIMMId] on system [MemoryName] is no longer throttled.	Informational
FQXSPMA2012I	An Over-Temperature Condition has been removed on the dimm [DIMMId] on system [MemoryName].	Informational
FQXSPMA2025I	BMC LAN recovers back from shared to dedicate.	Informational
FQXSPMA2037I	DIMMs has recovered from an Uncorrectable Error.	Informational
FQXSPMA2039I	DIMM [DIMMID] is enabled.	Informational
FQXSPNM4000I	Management Controller [arg1] Network Initialization Complete.	Informational
FQXSPNM4001I	Ethernet Data Rate modified from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPNM4002I	Ethernet Duplex setting modified from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPNM4003I	Ethernet MTU setting modified from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPNM4004I	Ethernet locally administered MAC address modified from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPNM4005I	Ethernet interface [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPNM4006I	Hostname set to [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPNM4011I	ENET[[arg1]] DHCP-HSTN=[arg2], DN=[arg3], IP@=[arg4], SN=[arg5], GW@=[arg6], DNS1@=[arg7].	Informational
FQXSPNM4012I	ENET[[arg1]] IP-Cfg:HstName=[arg2], IP@=[arg3] ,NetMsk=[arg4], GW@=[arg5].	Informational
FQXSPNM4013I	LAN: Ethernet[[arg1]] interface is no longer active.	Informational
FQXSPNM4014I	LAN: Ethernet[[arg1]] interface is now active.	Informational
FQXSPNM4016I	Domain name set to [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPNM4017I	Domain Source changed to [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPNM4018I	DDNS setting changed to [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPNM4019I	DDNS registration successful. The domain name is [arg1].	Informational

Table 2. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSPNM4020I	IPv6 enabled by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPNM4021I	IPv6 disabled by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPNM4022I	IPv6 static IP configuration enabled by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPNM4023I	IPv6 DHCP enabled by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPNM4024I	IPv6 stateless auto-configuration enabled by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPNM4025I	IPv6 static IP configuration disabled by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPNM4026I	IPv6 DHCP disabled by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPNM4027I	IPv6 stateless auto-configuration disabled by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPNM4028I	ENET[[arg1]] IPv6-LinkLocal:HstName=[arg2], IP@=[arg3] ,Pref=[arg4].	Informational
FQXSPNM4029I	ENET[[arg1]] IPv6-Static:HstName=[arg2], IP@=[arg3] ,Pref=[arg4], GW@=[arg5].	Informational
FQXSPNM4030I	ENET[[arg1]] DHCPv6-HSTN=[arg2], DN=[arg3], IP@=[arg4], Pref=[arg5], DNS1@=[arg6].	Informational
FQXSPNM4031I	IPv6 static address of network interface modified from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPNM4034I	SSH port number changed from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPNM4035I	Web-HTTP port number changed from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPNM4036I	Web-HTTPS port number changed from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPNM4039I	SNMP Agent port number changed from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPNM4040I	SNMP Traps port number changed from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPNM4041I	Syslog port number for syslog receiver [arg1] is changed from [arg2] to [arg3] by user [arg4] from [arg5] at IP address [arg6].	Informational
FQXSPNM4042I	Remote Presence port number changed from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPNM4043I	SMTP Server set by user [arg1] to [arg2]:[arg3] from [arg4] at IP address [arg5].	Informational
FQXSPNM4045I	DNS servers set by user [arg1]: UseAdditionalServers=[arg2], PreferredDNStype=[arg3], IPv4Server1=[arg4], IPv4Server2=[arg5], IPv4Server3=[arg6], IPv6Server1=[arg7], IPv6Server2=[arg8], IPv6Server3=[arg9] from [arg10] at IP address [arg11].	Informational
FQXSPNM4046I	LAN over USB [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPNM4047I	LAN over USB Port Forwarding set by user [arg1]: ExternalPort=[arg2], USB-LAN port=[arg3] from [arg4] at IP address [arg5].	Informational

Table 2. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSPNM4048I	PXE boot requested by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPNM4049I	User [arg1] has initiated a TKLM Server Connection Test to check connectivity to server [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPNM4051I	User [arg1] has set the SMTP Server reverse-path to [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPNM4053I	DNS discovery of Lenovo XClarity Administrator has been [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPNM4054I	The hostname from DHCP is [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPNM4055I	The hostname from DHCP is invalid.	Informational
FQXSPNM4056I	The NTP server address [arg1] is invalid.	Informational
FQXSPNM4057I	Security: IP address: [arg1] had [arg2] login failures, it will be blocked to access for [arg3] minutes.	Informational
FQXSPNM4058I	IP address of network interface [arg1] is modified from [arg2] to [arg3] by user [arg4] from [arg5] at IP address [arg6].	Informational
FQXSPNM4059I	IP subnet mask of network interface [arg1] is modified from [arg2] to [arg3] by user [arg4] from [arg5] at IP address [arg6].	Informational
FQXSPNM4060I	IP address of default gateway of network interface [arg1] is modified from [arg2] to [arg3] by user [arg4] from [arg5] at IP address [arg6].	Informational
FQXSPNM4068I	The USB [arg1] is [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPNM4069I	The LLDP service is [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPNM4070I	Daisy mode is [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPOS4000I	OS Watchdog response [arg1] by [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPOS4001I	Watchdog [arg1] Screen Capture Occurred.	Informational
FQXSPOS4004I	Operating System status has changed to [arg1].	Informational
FQXSPOS4005I	Host Power-On password changed by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPOS4006I	Host Power-On password cleared by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPOS4007I	Host Admin password changed by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPOS4008I	Host Admin password cleared by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPOS4009I	OS Crash Video Captured.	Informational
FQXSPOS4011I	OS failure screen capture with hardware error is [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPOS4012I	POST watchdog Screen Capture Occurred.	Informational

Table 2. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSPPP4000I	Attempting to [arg1] server [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPPP4001I	Server Power Off Delay set to [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPPP4002I	Server [arg1] scheduled for [arg2] at [arg3] by user [arg4] from [arg5] at IP address [arg6].	Informational
FQXSPPP4003I	Server [arg1] scheduled for every [arg2] at [arg3] by user [arg4] from [arg5] at IP address [arg6].	Informational
FQXSPPP4004I	Server [arg1] [arg2] cleared by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPPP4005I	The power cap value changed from [arg1] watts to [arg2] watts by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPPP4011I	Power capping was activated by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPPP4012I	Power capping was deactivated by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPPP4020I	The measured power value has returned below the power cap value.	Informational
FQXSPPP4022I	The server was restarted for an unknown reason.	Informational
FQXSPPP4023I	The server is restarted by chassis control command.	Informational
FQXSPPP4024I	The server was reset via push button.	Informational
FQXSPPP4025I	The server was powered-up via power push button.	Informational
FQXSPPP4026I	The server was restarted when the watchdog expired.	Informational
FQXSPPP4027I	The server was restarted for OEM reason.	Informational
FQXSPPP4028I	The server was automatically powered on because the power restore policy is set to always on.	Informational
FQXSPPP4029I	The server was automatically powered on because the power restore policy is set to restore previous power state.	Informational
FQXSPPP4030I	The server was reset via Platform Event Filter.	Informational
FQXSPPP4031I	The server was power-cycled via Platform Event Filter.	Informational
FQXSPPP4032I	The server was soft reset.	Informational
FQXSPPP4033I	The server was powered up via Real Time Clock (scheduled power on).	Informational
FQXSPPP4034I	The server was powered off for an unknown reason.	Informational
FQXSPPP4035I	The server was powered off by chassis control command.	Informational
FQXSPPP4036I	The server was powered off via push button.	Informational
FQXSPPP4037I	The server was powered off when the watchdog expired.	Informational
FQXSPPP4038I	The server stayed powered off because the power restore policy is set to always off.	Informational
FQXSPPP4039I	The server stayed powered off because the power restore policy is set to restore previous power state.	Informational

Table 2. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSPPP4040I	The server was powered off via Platform Event Filter.	Informational
FQXSPPP4041I	The server was powered off via Real Time Clock (scheduled power off).	Informational
FQXSPPP4042I	Management Controller [arg1] reset was initiated due to Power-On-Reset.	Informational
FQXSPPP4044I	Management Controller [arg1] reset was initiated by CMM.	Informational
FQXSPPP4047I	Management Controller [arg1] reset was initiated by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPPP4048I	Attempting to AC power cycle server [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPPP4049I	Management Controller [arg1] reset was initiated by Front Panel.	Informational
FQXSPPP4050I	Management Controller [arg1] reset was initiated to activate PFR Firmware.	Informational
FQXSPPP4054I	Unbalanced PSU config is detected, system is using less node PSU capacity.	Informational
FQXSPPR0000I	[BackplaneName] detected as present.	Informational
FQXSPPR0003I	Front Panel detected as present.	Informational
FQXSPPR0004I	TPM module detected as present.	Informational
FQXSPPR2001I	[BackplaneName] detected as absent.	Informational
FQXSPPR2003I	Front Panel detected as absent.	Informational
FQXSPPR2004I	TPM module detected as absent.	Informational
FQXSPPU2001I	An Over-Temperature Condition has been removed on Processor [ProcessorId].	Informational
FQXSPPU2002I	The Processor [ProcessorId] is no longer operating in a Degraded State.	Informational
FQXSPPU2007I	The System [ComputerSystemName] has detected a POST Error deassertion - CPU voltage mismatch.	Informational
FQXSPPU2009I	Processor [ProcessorId] has Recovered from a Configuration Mismatch.	Informational
FQXSPPU2015I	CPU feature mismatch is recovered.	Informational
FQXSPPU2016I	CPUs has recovered from an Uncorrectable Error.	Informational
FQXSPPU2017I	Processor [ProcessorId] has recovered from a hard fault.	Informational
FQXSPPW0001I	Power supply [PowerSupplyId] has been added.	Informational
FQXSPPW0002I	Power supply [PowerSupplyId] in the enclosure/chassis (MTM-S/N: [MachineSerialNumber]) has been added.	Informational
FQXSPPW0004I	The input to power supply [PowerSupplyId] has been lost or fallen out of range.	Informational
FQXSPPW0005I	Power supply [PowerSupplyId] is operating in an Input State that is out of range.	Informational
FQXSPPW0008I	Host power has been turned off.	Informational

Table 2. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSPPW0009I	Host power has been Power Cycled.	Informational
FQXSPPW0011I	Host power has lost power.	Informational
FQXSPPW0054I	PSU Mismatch has transitioned to normal state.	Informational
FQXSPPW0055I	SysBrd voltage fault has transitioned to normal state.	Informational
FQXSPPW0091I	Redundancy Power Resource has been restored.	Informational
FQXSPPW0129I	PSU [SensorName] failure has transitioned to normal state.	Informational
FQXSPPW0130I	PSU [SensorName] prediction fault failure has transitioned to normal state.	Informational
FQXSPPW0131I	PSU [SensorName] input failure has transitioned to normal state.	Informational
FQXSPPW2001I	Power supply [PowerSupplyId] has been removed.	Informational
FQXSPPW2002I	Power supply [PowerSupplyId] has returned to OK status.	Informational
FQXSPPW2003I	Failure no longer predicted on power supply [PowerSupplyId].	Informational
FQXSPPW2004I	Power supply [PowerSupplyId] has returned to a Normal Input State.	Informational
FQXSPPW2005I	Power supply [PowerSupplyId] has returned to a Normal Input State.	Informational
FQXSPPW2006I	Power supply [PowerSupplyId] has returned to a Normal Input State.	Informational
FQXSPPW2007I	Power supply [PowerSupplyId] Configuration is OK.	Informational
FQXSPPW2008I	Host power has been turned on.	Informational
FQXSPPW2009I	Power supply [PowerSupplyId] in the enclosure/chassis (MTM-S/N: [MachineSerialNumber]) has been removed.	Informational
FQXSPPW2011I	Host power was restored.	Informational
FQXSPPW2015I	Power supply [PowerSupplyId] in the enclosure/chassis (MTM-SN: [MachineSerialNumber])has returned to OK status.	Informational
FQXSPPW2017I	Power supply [PowerSupplyId] in the enclosure/chassis (MTM-SN: [MachineSerialNumber])has returned to a normal input state.	Informational
FQXSPPW2031I	CMOS battery voltage going low (lower non-critical) has deasserted.	Informational
FQXSPPW2035I	[SysBrdVol] going low (lower critical) has deasserted.	Informational
FQXSPPW2047I	[SysBrdVol] going high (upper critical) has deasserted.	Informational
FQXSPPW2057I	PSU [SensorName] prediction fault failure has deasserted the transition from normal to non-critical state.	Informational
FQXSPPW2061I	PSU [SensorName] failure has transitioned to a less severe state from critical.	Informational
FQXSPPW2062I	PSU Mismatch has transitioned to a less severe state from critical.	Informational
FQXSPPW2063I	SysBrd voltage fault has transitioned to a less severe state from critical.	Informational
FQXSPPW2101I	Redundancy Degraded for Power Resource has deasserted.	Informational
FQXSPPW2104I	Non-redundant:Sufficient Resources from Redundancy Degraded or Fully Redundant for Power Resource has deasserted.	Informational

Table 2. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSPPW2110I	Non-redundant:Insufficient Resources for Power Resource has deasserted.	Informational
FQXSPPW2123I	PSU [SensorName] input failure has transitioned to a less severe state from critical.	Informational
FQXSPPW2134I	CMOS battery voltage going low (lower critical) has deasserted.	Informational
FQXSPPW2135I	Recovered from invalid PSU redundancy config.	Informational
FQXSPSD0000I	The [DriveName] has been added.	Informational
FQXSPSD0003I	Hot Spare enabled with drive [DriveLocation].	Informational
FQXSPSD0005I	Hot Spare enabled for drive [DriveLocation] in the enclosure/chassis (MTM-SN: [MachineSerialNumber]).	Informational
FQXSPSD0007I	The [DriveName] is rebuilding.	Informational
FQXSPSD0008I	Array rebuild in progress on drive [DriveLocation] in the enclosure/chassis (MTM-S/N: [MachineSerialNumber]).	Informational
FQXSPSD2000I	The [DriveName] has been removed from unit [PhysicalPackageName].	Informational
FQXSPSD2001I	The [DriveName] has recovered from a fault.	Informational
FQXSPSD2002I	Failure no longer Predicted on [DriveName].	Informational
FQXSPSD2003I	Hot Spare disabled with drive [DriveLocation].	Informational
FQXSPSD2007I	Rebuild completed on [DriveName].	Informational
FQXSPSD2008I	Drive [DriveLocation] in the enclosure/chassis(MTM-SN: [MachineSerialNumber]) has recovered from a fault.	Informational
FQXSPSD2011I	Failure no longer Predicted on drive [DriveLocation] in the enclosure/chassis (MTM-S/N: [MachineSerialNumber]).	Informational
FQXSPSD2012I	Hot Spare disabled for drive [DriveLocation] in the enclosure/chassis (MTM-SN: [MachineSerialNumber]).	Informational
FQXSPSD2015I	Array rebuild completed on drive [DriveLocation] in the enclosure/chassis (MTM-S/N: [MachineSerialNumber]).	Informational
FQXSPSE2000I	The Chassis [ComputerSystemName] was closed.	Informational
FQXSPSE2010I	System guard changed to compliant status.	Informational
FQXSPSE4001I	Remote Login Successful. Login ID: [arg1] using [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSE4002I	Security: Userid: [arg1] using [arg2] had [arg3] login failures from WEB client at IP address [arg4].	Informational
FQXSPSE4003I	Security: Login ID: [arg1] had [arg2] login failures from CLI at [arg3].	Informational
FQXSPSE4004I	Remote access attempt failed. Invalid userid or password received. Userid is [arg1] from WEB browser at IP address [arg2].	Informational
FQXSPSE4007I	Security: Userid: [arg1] using [arg2] had [arg3] login failures from an SSH client at IP address [arg4].	Informational
FQXSPSE4008I	SNMPv1 [arg1] set by user [arg2]: Name=[arg3], AccessType=[arg4], Address=[arg5] from [arg6] at IP address [arg7].	Informational

Table 2. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSPSE4009I	LDAP Server configuration set by user [arg1]: AuthenticatonOnly=[arg2], UseDNS=[arg3], ForestName=[arg4], DomainName=[arg5], Server1=[arg6], Server2=[arg7], Server3=[arg8], Server4=[arg9] from [arg10] at IP address [arg11].	Informational
FQXSPSE4010I	LDAP set by user [arg1]: Type=[arg2], RootDN=[arg3], UserSearchAttribute=[arg4], BindingMethod=[arg5], GroupFilter=[arg6], GroupSearchAttribute=[arg7], LoginAttribute=[arg8] from [arg9] at IP address [arg10].	Informational
FQXSPSE4011I	Secure Web services (HTTPS) [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSE4013I	Secure LDAP [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSE4014I	SSH [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSE4015I	Global Login General Settings set by user [arg1]: AuthenticationMethod=[arg2], LockoutPeriod=[arg3], SessionTimeout=[arg4] from [arg5] at IP address [arg6].	Informational
FQXSPSE4016I	Global Login Account Security set by user [arg1]: ForceToChangePasswordOnFirstAccess=[arg2], ComplexPasswordRequired=[arg3], PasswordExpirationPeriod=[arg4], MinimumPasswordReuseCycle=[arg5], MinimumPasswordLength=[arg6], MinimumPasswordChangeInterval=[arg7], MaxmumLoginFailures=[arg8], LockoutAfterMaxFailures=[arg9] from [arg10] at IP address [arg11].	Informational
FQXSPSE4022I	User [arg1] for SNMPv3 agent set: AuthenticationProtocol=[arg2], PrivacyProtocol=[arg3], AccessType=[arg4] by user [arg5] from [arg6] at IP address [arg7].	Informational
FQXSPSE4023I	SSH Client key added for user [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSE4024I	SSH Client key imported for user [arg1] from [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPSE4025I	SSH Client key removed from user [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSE4028I	Security: Userid: [arg1] had [arg2] login failures from IPMI client at IP address [arg3].	Informational
FQXSPSE4029I	Security: Userid: [arg1] had [arg2] login failures from SNMP client at IP address [arg3].	Informational
FQXSPSE4032I	Login ID: [arg1] from [arg2] at IP address [arg3] has logged off.	Informational
FQXSPSE4034I	User [arg1] has removed a certificate from [arg2] at IP address [arg3].	Informational
FQXSPSE4035I	A certificate has been revoked.	Informational
FQXSPSE4036I	The [arg1] certificate is expired and has been removed.	Informational
FQXSPSE4038I	Minimum TLS level modified from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPSE4039I	Temporary user account [arg1] is created by inband tool.	Informational

Table 2. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSPSE4040I	Temporary user account [arg1] expires.	Informational
FQXSPSE4042I	The third-party password function [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSE4043I	Retrieving the third-party password [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSE4044I	User [arg1] third-party hashed password has been [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPSE4045I	The Salt of user [arg1] third-party password has been [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPSE4046I	The third-party password of the user [arg1] has been retrieved by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSE4047I	Role [arg1] is [arg2] and assigned with custom privileges [arg3] by user [arg4] from [arg5] at IP address [arg6].	Informational
FQXSPSE4048I	Role [arg1] is removed by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSE4049I	Role [arg1] is assigned to user [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPSE4050I	[arg1] sent IPMI command from [arg2], raw data: [arg3][arg4][arg5].	Informational
FQXSPSE4051I	Management Controller [arg1] joined the neighbor group [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPSE4052I	The password of neighbor group [arg1] is modified by [arg2] [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPSE4053I	Management Controller [arg1] left the neighbor group [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPSE4054I	IPMI SEL wrapping mode is [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSE4055I	SED encryption is enabled by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPSE4056I	SED AK is [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSE4057I	User [arg1] created by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSE4058I	User [arg1] removed by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSE4059I	User [arg1] password modified by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSE4060I	User [arg1] role set to [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPSE4061I	User [arg1] custom privileges set: [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPSE4062I	The system guard snapshot is captured by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPSE4063I	The system guard configuration is updated: status=[arg1], hardware inventory=[arg2] and action=[arg3] by user [arg4] from [arg5] at IP address [arg6].	Informational

Table 2. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSPSE4064I	SNMPv3 engine ID is changed from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPSE4065I	SFTP [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSE4066I	Security mode is modified from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPSE4067I	User [arg1] accessible interfaces is set to [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPSE4068I	Security: Userid: [arg1] using [arg2] had [arg3] login failures from Redfish client at IP address [arg4].	Informational
FQXSPSE4069I	LDAP set by user [arg1]: RootDN=[arg2], UIDSearchAttribute=[arg3], BindingMethod=[arg4], TargetName=[arg5], GroupFilter=[arg6], GroupAttribute=[arg7], LoginAttribute=[arg8] from [arg9] at IP address [arg10].	Informational
FQXSPSE4074I	Security mode downgrades because the XCC2 Platinum Upgrade key is expired or deleted.	Informational
FQXSPSE4079I	The Operator role is [arg1] to contain Remote Console Access permission by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSE4080I	The user [arg1] attempts to clear CMOS from [arg2] at IP address [arg3].	Informational
FQXSPSE4081I	BMC returns the valid local cached key to UEFI for SED drives.	Informational
FQXSPSE4082I	Remote key management server is inaccessible.	Informational
FQXSPSE4083I	The local cached key has expired and destroyed it.	Informational
FQXSPSE4084I	Periodic connection to remote key management server succeeded.	Informational
FQXSPSE4085I	Periodic connection to remote key management server failed.	Informational
FQXSPSE4091I	SNMPv2 [arg1] set by user [arg2]: Name=[arg3], AccessType=[arg4], Address=[arg5].	Informational
FQXSPSE4092I	SNMPv1 Community-1 set by user [arg1]: Name=[arg2], AccessType=trap from [arg3] at IP address [arg4].	Informational
FQXSPSE4093I	SNMPv1 Community-1 set by user [arg1]: address=[arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSE4094I	SNMPv2 Community-1 set by user [arg1]: Name=[arg2], AccessType=trap from [arg3] at IP address [arg4].	Informational
FQXSPSE4095I	SNMPv2 Community-1 set by user [arg1]: address=[arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSE4096I	User [arg1] for SNMPv3 trap set: AuthenticationProtocol=[arg2], PrivacyProtocol=[arg3], HostforTraps=[arg4] by user [arg5] from [arg6] at IP address [arg7].	Informational
FQXSPSE4097I	User [arg1] for SNMPv3 trap is deleted by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSE4098I	Security: Userid: [arg1] failed to login from [arg2] at IP address [arg3].	Informational
FQXSPSE4129I	Security: Userid: [arg1] failed to login from SNMP client at IP address [arg2].	Informational

Table 2. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSPSS4000I	Management Controller Test Alert Generated by [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPSS4001I	Server General Settings set by user [arg1]: Name=[arg2], Contact=[arg3], Location=[arg4], Room=[arg5], RackID=[arg6], Rack U-position=[arg7], Address=[arg8] from [arg9] at IP address [arg10].	Informational
FQXSPSS4002I	License key for [arg1] added by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSS4003I	License key for [arg1] removed by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPSS4004I	Test Call Home Generated by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPSS4006I	Call Home to [arg1] failed to complete: [arg2].	Informational
FQXSPSS4007I	The BMC functionality tier is changed from [arg1] to [arg2].	Informational
FQXSPSS4008I	The UEFI setting has been changed by user [arg1] from address [arg2]. A total of [arg3] items were changed in the request.	Informational
FQXSPSS4009I	System enters LXPM maintenance mode.	Informational
FQXSPSS4010I	Test Audit Log generated by user [arg1] from [arg2] at IP address [arg3].	Informational
FQXSPSS4011I	Fan speed boost setting is changed from [arg1] to [arg2].	Informational
FQXSPSS4012I	The [arg1] setting has been changed to [arg2] by user [arg3] from [arg4] at IP address [arg5].	Informational
FQXSPTR4001I	Date and Time set by user [arg1]: Date=[arg2], Time-[arg3], DST Auto-adjust=[arg4], Timezone=[arg5] from [arg6] at IP address [arg7].	Informational
FQXSPTR4002I	Synchronize time setting by user [arg1]: Mode=Sync with NTP Server, NTPServerHost1=[arg2],NTPServerHost2=[arg3],NTPServerHost3=[arg4],NTPServerHost4=[arg5],NTPUpdateFrequency=[arg6] from [arg7] at IP address [arg8].	Informational
FQXSPTR4003I	Synchronize time setting by user [arg1]: Mode=Sync with server clock from [arg2] at IP address [arg3].	Informational
FQXSPUN0017I	The cooling liquid has stopped leaking and transitioned to normal state with sensor [DripName].	Informational
FQXSPUN0026I	Low Security Jumper is enabled.	Informational
FQXSPUN0048I	The RAID controller in PCI slot [PCILocation] in optimal status.	Informational
FQXSPUN0057I	The RAID controller in PCI slot [PCILocation] does not have a battery.	Informational
FQXSPUN0061I	System Maintenance Mode has asserted.	Informational
FQXSPUN0062I	SMI Timeout has asserted.	Informational
FQXSPUN0063I	PSU heavy load has asserted.	Informational
FQXSPUN2012I	BMC firmware corrupted has deasserted.	Informational
FQXSPUN2026I	Low Security Jumper is disabled.	Informational
FQXSPUN2049I	The RAID controller in PCI slot [PCILocation] is no longer in warning status.	Informational

Table 2. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSPUN2050I	The RAID controller in PCI slot [PCILocation] is no longer in critical status.	Informational
FQXSPUN2057I	The RAID controller in PCI slot [PCILocation] has a battery now.	Informational
FQXSPUN2058I	The remaining life for all SSDs is above threshold [ThresholdValue].	Informational
FQXSPUN2061I	System Maintenance Mode has deasserted.	Informational
FQXSPUN2062I	SMI Timeout has deasserted.	Informational
FQXSPUN2063I	PSU heavy load has deasserted.	Informational
FQXSPUN2065I	UEFI firmware is automatically recovered from authentication failure.	Informational
FQXSPUN2067I	UEFI firmware is manually recovered from authentication failure.	Informational
FQXSPUN2068I	[DriveName] Mismatch has transitioned to a less severe state from critical.	Informational
FQXSPUP0002I	A firmware or software change occurred on system [ComputerSystemName].	Informational
FQXSPUP4006I	Auto promote primary XCC to backup is [arg1] by user [arg2] from [arg3] at IP address [arg4].	Informational
FQXSPUP4007I	Violation access to XCC SPI flash is detected and isolated.	Informational
FQXSPUP4008I	Violation access to UEFI SPI flash is detected and isolated.	Informational
FQXSPUP4010I	Update [arg1] of [arg2] from [arg3] succeeded for user [arg4].	Informational
FQXSPUP4011I	Update [arg1] of [arg2] from [arg3] failed for user [arg4].	Informational
FQXSPWD0000I	Watchdog Timer expired for [WatchdogName].	Informational
FQXSPWD0001I	Reboot of system [ComputerSystemName] initiated by watchdog [WatchdogName].	Informational
FQXSPWD0002I	Powering off system [ComputerSystemName] initiated by watchdog [WatchdogName].	Informational
FQXSPWD0003I	Power cycle of system [ComputerSystemName] initiated by watchdog [WatchdogName].	Informational
FQXSPWD0004I	Watchdog Timer interrupt occurred for [WatchdogName].	Informational
FQXSPCA0000J	Fan [NumericSensorName] going low (lower non-critical) has asserted.	Warning
FQXSPCA0007J	Ambient temperature going high (upper non-critical) has asserted.	Warning
FQXSPCA0046J	DIMM [DIMMId] temperature going high (upper non-critical) has asserted.	Warning
FQXSPCA0049J	Pump tach [pumpFanIndex] going high (upper non-critical) has asserted.	Warning
FQXSPCP0001G	Device [DeviceName] mismatch with the system.	Warning
FQXSPEA0003J	Link down is detected on port [PCIPortNumber] of the PCIe device [PCIDeviceName].	Warning
FQXSPEM4043I	A [arg1] failure has been detected and need [arg2] to recover.	Warning
FQXSPIO0014J	Bus [BusName] is operating in a degraded state.	Warning

Table 2. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSPIO0035G	[DeviceName] is installed in wrong location.	Warning
FQXSPIO0036G	Signal cable and power cable are misconnected for [DeviceName]. Should connect signal cable [RiserOrBPConnectorName1] to [MCIOorMXIOConnectName1], [RiserOrBPConnectorName2] to [MCIOorMXIOConnectName2].	Warning
FQXSPIO0037G	Signal cable and power cable are misconnected for [DeviceName]. Should connect signal cable [MCIOorMXIOConnectName].	Warning
FQXSPIO0038G	Signal cable of [DeviceName] is not connected, Should connect to [MCIOorMXIOConnectName].	Warning
FQXSPIO0039G	Signal cable of [DeviceName] is misconnected to [WrongConnectorName]. Should connect to [MCIOorMXIOConnectName].	Warning
FQXSPIO0040G	Signal cable [SignalCableName] of [DeviceName] is not connected. Should connect to [MCIOorMXIOConnectName].	Warning
FQXSPIO0041G	Signal cable [SignalCableName] of [DeviceName] is misconnected to [WrongMCIOorMXIOConnectName]. Should connect to [RightMCIOorMXIOConnectName].	Warning
FQXSPIO2000J	The connector [PhysicalConnectorName] has been disconnected.	Warning
FQXSPMA0010J	DIMM [DIMMId] on system [MemoryName] is throttled.	Warning
FQXSPMA0039G	DIMM [DIMMID] is disabled.	Warning
FQXSPNM4010I	DHCP[[arg1]] failure, no IP address assigned.	Warning
FQXSPPP4009I	The measured power value exceeded the power cap value.	Warning
FQXSPPU0002G	Processor [ProcessorId] is operating in a Degraded State.	Warning
FQXSPPU0010G	Processor [ProcessorId] is operating in a Degraded State due to [ElementSource].	Warning
FQXSPPU0015G	CPU feature mismatch is detected.	Warning
FQXSPPW0003G	Failure predicted on power supply [PowerSupplyId].	Warning
FQXSPPW0006I	Power supply [PowerSupplyId] has lost input.	Warning
FQXSPPW0007I	Power supply [PowerSupplyId] in the enclosure/chassis (MTM-SN: [MachineSerialNumber])has lost input.	Warning
FQXSPPW0031J	CMOS battery voltage going low (lower non-critical) has asserted.	Warning
FQXSPPW0057J	PSU [SensorName] prediction fault failure has transitioned from normal to non-critical state.	Warning
FQXSPPW0101J	Redundancy Degraded for Power Resource has asserted.	Warning
FQXSPPW0104J	Non-redundant:Sufficient Resources from Redundancy Degraded or Fully Redundant for Power Resource has asserted.	Warning
FQXSPSD0002G	Failure Predicted on [DriveName].	Warning
FQXSPSD0003G	Failure Predicted on drive [DriveLocation] in the enclosure/chassis (MTM-SN: [MachineSerialNumber]).	Warning
FQXSPSE0000F	The Chassis [ComputerSystemName] was opened.	Warning

Table 2. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSPSE0010J	System Guard detected inventory mismatch with trusted snapshot.	Warning
FQXSPSE4006I	XCC detected an invalid SSL certificate in the Management Controller [arg1].	Warning
FQXSPSS0012G	[System] cannot detect [DeviceName].	Warning
FQXSPUN0009G	BMC firmware corruption is detected.	Warning
FQXSPUN0049J	The RAID controller in PCIe slot [PCILocation] is in warning status. At least one physical drive is in unconfigured bad state.	Warning
FQXSPUN0051J	The RAID controller in PCIe slot [PCILocation] has asserted a warning. Foreign configuration is detected.	Warning
FQXSPUN0058J	The remaining life of [DriveName] is lower than the warning threshold ([ThresholdValue]).	Warning
FQXSPUN0059J	RoT attestation has detected a failure.	Warning
FQXSPUN0060G	RoT mismatch has asserted.	Warning
FQXSPUN0065J	UEFI firmware authentication failure is detected.	Warning
FQXSPUP0007L	BMC primary firmware is corrupted, auto fail over to backup.	Warning
FQXSPBR4003I	OS Watchdog Timer expired for [arg1].	Error
FQXSPBR4007I	Management Controller [arg1]: Configuration restoration from a file by user [arg2] failed to complete from [arg3] at IP address [arg4].	Error
FQXSPBR4008I	Management Controller [arg1]: Configuration restoration from a file by user [arg2] failed to start from [arg3] at IP address [arg4].	Error
FQXSPCA0002M	Fan [NumericSensorName] going low (lower critical) has asserted.	Error
FQXSPCA0009M	Ambient temperature going high (upper critical) has asserted.	Error
FQXSPCA0011N	Ambient temperature going high (upper non-recoverable) has asserted.	Error
FQXSPCA0016M	Fan Mismatch has transitioned to critical from a less severe state.	Error
FQXSPCA0017M	PCIe [SensorName] overtemperature has transitioned to critical from a less severe state.	Error
FQXSPCA0019N	PCIe [SensorName] overtemperature has transitioned to non-recoverable from a less severe state.	Error
FQXSPCA0040N	Liquid is leaking from open loop [CoolingSensorName].	Error
FQXSPCA0041N	Liquid is leaking from closed loop [CoolingSensorName].	Error
FQXSPCA0042M	Liquid leak detector for [DeviceType] is faulty.	Error
FQXSPCA0047M	DIMM [DIMMId] temperature going high (upper critical) has asserted.	Error
FQXSPCA0048M	DIMM [DIMMId] temperature going high (upper non-recoverable) has asserted.	Error
FQXSPCA0050M	Pump tach [pumpFanIndex] going high (upper critical) has asserted.	Error
FQXSPCA0051N	Pump tach [pumpFanIndex] going high (upper non-recoverable) has asserted.	Error
FQXSPCA0052M	Pump tach [pumpFanIndex] going low (lower critical) has asserted.	Error

Table 2. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSPFW0001N	Firmware BIOS (ROM) corruption was detected on system [ComputerSystemName] during POST.	Error
FQXSPIO0004L	A bus timeout has occurred on bus [BusName].	Error
FQXSPIO0006N	A software NMI has occurred on system [ComputerSystemName].	Error
FQXSPIO0011N	An Uncorrectable Error has occurred on PCIs.	Error
FQXSPIO0013N	A Fatal Bus Error has occurred on bus [BusName].	Error
FQXSPIO0024M	[BackplaneName] has invalid cabling configuration.	Error
FQXSPIO0027M	Fault in M2 adapter(serial number: [SerialNumber]) on system [ComputerSystemName].	Error
FQXSPIO0031M	PCIe devices have fault.	Error
FQXSPMA0012M	An Over-Temperature Condition has been detected on the DIMM [DIMMId] on system [MemoryName].	Error
FQXSPMA0130N	Memory PMIC [MemoryPMICGroup] has transitioned to non-recoverable.	Error
FQXSPOS4002I	Watchdog [arg1] Failed to Capture Screen.	Error
FQXSPOS4003I	Platform Watchdog Timer expired for [arg1].	Error
FQXSPOS4010I	OS Crash Video Capture Failed.	Error
FQXSPPU0001N	An Over-Temperature Condition has been detected on Processor [ProcessorId].	Error
FQXSPPU0007N	CPU voltage mismatch detected on [ProcessorName].	Error
FQXSPPU0009N	Processor [ProcessorId] has a Configuration Mismatch.	Error
FQXSPPU0016N	An Uncorrectable Error has occurred on CPUs.	Error
FQXSPPU0017N	A hard fault has occurred on processor [ProcessorId].	Error
FQXSPPW0002L	Power supply [PowerSupplyId] has Failed.	Error
FQXSPPW0003L	Power supply [PowerSupplyId] in the enclosure/chassis (MTM-SN: [MachineSerialNumber])has failed.	Error
FQXSPPW0007L	Power supply [PowerSupplyId] has a Configuration Mismatch.	Error
FQXSPPW0035M	[SysBrdVol] going low (lower critical) has asserted.	Error
FQXSPPW0047M	[SysBrdVol] going high (upper critical) has asserted.	Error
FQXSPPW0061M	PSU [SensorName] failure has transitioned to critical from a less severe state.	Error
FQXSPPW0062M	PSU mismatch has transitioned to critical from a less severe state.	Error
FQXSPPW0063M	SysBrd voltage fault has transitioned to critical from a less severe state.	Error
FQXSPPW0110M	Non-redundant:Insufficient Resources for Power Resource has asserted.	Error
FQXSPPW0123M	PSU [SensorName] input failure has transitioned to critical from a less severe state.	Error

Table 2. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSPPW0129N	CPU [ProcessorId] [VRName] has transitioned to non-recoverable.	Error
FQXSPPW0131N	Peripheral device [DeviceName] powergood has transitioned to non-recoverable.	Error
FQXSPPW0132N	Fan [FanGroup] powergood has transitioned to non-recoverable.	Error
FQXSPPW0133N	MB AUX powergood has transitioned to non-recoverable.	Error
FQXSPPW0134M	CMOS battery voltage going low (lower critical) has asserted.	Error
FQXSPPW0135J	Invalid redundancy config, current PSU config doesn't support Non-redundant mode.	Error
FQXSPSD0001L	The [DriveName] has a fault.	Error
FQXSPSD0002L	Drive [DriveLocation] in the enclosure/chassis(MTM-SN: [MachineSerialNumber]) has a fault.	Error
FQXSPSE4000I	Certificate Authority [arg1] has detected a Certificate Error.	Error
FQXSPUN0050M	The RAID controller in PCIe slot [PCILocation] is in critical state. Volume [VolumeID] is offline.	Error
FQXSPUN0053M	The RAID controller in PCIe slot [PCILocation] is in critical status. At least one physical drive is failed.	Error
FQXSPUN0054M	The RAID controller in PCIe slot [PCILocation] is in critical status. Volume [VolumeID] is degraded.	Error
FQXSPUN0055M	The RAID controller in PCIe slot [PCILocation] is in critical state. Battery is in non-optimal state.	Error
FQXSPUN0067M	Failed to automatically recover UEFI firmware from authentication failure.	Error
FQXSPUN0068M	[DriveName] Mismatch has transitioned to critical from a less severe state.	Error
FQXSPUN0069M	The remaining life of [DriveName] is lower than the critical threshold ([ThresholdValue]).	Error
FQXSPUP4003I	[arg1] firmware mismatch internal to system [arg2]. Please attempt to flash the [arg3] firmware.	Error
FQXSPUP4009I	Please ensure that the system is flashed with the correct [arg1] firmware. The Management Controller is unable to match the firmware to the server.	Error

List of XClarity Controller events

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

- **FQXSPBR4000I: Management Controller [arg1]: Configuration restored from a file by user [arg2] from [arg3] at IP address [arg4].**

  This message is for the use case where a user restores a management controller configuration from a file.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other

SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0027

User Action:

Information only; no action is required.

- **FQXSPBR4002I: 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.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0032

  User Action:

  Information only; no action is required.

- **FQXSPBR4003I: OS Watchdog Timer expired for [arg1].**

  This message is for the use case when an implementation has detected OS watchdog timer expired

  Severity: Error
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - OS Timeout
  SNMP Trap ID: 21
  CIM Prefix: IMM CIM ID: 0039

  User Action:

  Complete the following steps until the problem is solved:

  1. Reconfigure the watchdog timer to a higher value.
  2. Make sure that the BMC 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.
  6. If the problem persists, collect service data log.
  7. Contact Lenovo Support.

- **FQXSPBR4004I: Server timeouts set by user [arg1]: EnableOSWatchdog=[arg2], OSWatchdogTimout=[arg3], EnableLoaderWatchdog=[arg4], LoaderTimeout=[arg5] from [arg6] at IP address [arg7].**

  A user configures server timeouts.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0095

  User Action:

Information only; no action is required.

- **FQXSPBR4005I: Management Controller [arg1]: Configuration saved to a file by user [arg2] from [arg3] at IP address [arg4].**

  A user saves a management controller configuration to a file.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0109

  User Action:

  Information only; no action is required.

- **FQXSPBR4006I: Management Controller [arg1]: Configuration restoration from a file by user [arg2] completed from [arg3] at IP address [arg4].**

  This message is for the use case where a user restores a management controller configuration from a file and it completes.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0136

  User Action:

  Information only; no action is required.

- **FQXSPBR4007I: Management Controller [arg1]: Configuration restoration from a file by user [arg2] failed to complete from [arg3] at IP address [arg4].**

  This message is for the use case where a user restores a management controller configuration from a file and the restoration fails to complete.

  Severity: Error
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0137

  User Action:

  Complete the following steps until the problem is solved:

  1. Turn off the server and disconnect it from the power source. You must disconnect the server from AC power to reset the BMC.
  2. After 45 seconds, reconnect the server to the power source and turn on the server.
  3. Retry the operation.
  4. If the problem persists, collect service data log.
  5. Contact Lenovo Support.

- **FQXSPBR4008I: Management Controller [arg1]: Configuration restoration from a file by user [arg2] failed to start from [arg3] at IP address [arg4].**

  This message is for the use case where a user restores a management controller configuration from a file and the restoration fails to start.

  Severity: Error
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0138

  User Action:

  Complete the following steps until the problem is solved:

  1. Turn off the server and disconnect it from the power source. You must disconnect the server from AC power to reset the BMC.
  2. After 45 seconds, reconnect the server to the power source and turn on the server.
  3. Retry the operation.
  4. If the problem persists, collect service data log.
  5. Contact Lenovo Support.

- **FQXSPBR4009I: Management Controller [arg1]: cloning configuration from neighbor server [arg2] by group name [arg3].**

  This message is for the use case where a user synchronizes a management controller configuration by Federation.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0255

  User Action:

  Information only; no action is required.

- **FQXSPBR400AI: Management Controller [arg1]: cloning configuration from neighbor server [arg2] by group name [arg3] completed.**

  This message is for the use case where a user synchronizes a management controller configuration by Federation and it completes.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0256

  User Action:

  Information only; no action is required.

- **FQXSPBR400BI: Management Controller [arg1]: cloning configuration from neighbor server [arg2] by group name [arg3] failed to complete.**

This message is for the use case where a user synchronizes a management controller configuration by Federation and the restoration fails to complete.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0257

User Action:

Information only; no action is required.

- **FQXSPBR400CI: Management Controller [arg1]: cloning configuration from neighbor server [arg2] by group name [arg3] failed to start.**

  This message is for the use case where a user synchronizes a management controller configuration by Federation and the restoration fails to start.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0258

  User Action:

  Information only; no action is required.

- **FQXSPBR400DI: Neighbor group clone configuration was initiated by user [arg1] from [arg2] at IP address [arg3].**

  This message is for the user initiated a Federation clone configuration.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0259

  User Action:

  Information only; no action is required.

- **FQXSPBR400EI: Neighbor group firmware update was initiated by user [arg1] from [arg2] at IP address [arg3].**

  This message is for the user started a Federation update.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0260

  User Action:

  Information only; no action is required.

- **FQXSPBR400FI: The neighbor group management is [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  Neighbor group management is enabled or disabled by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0272

  User Action:

  Information only; no action is required.

- **FQXSPCA0000J: Fan [NumericSensorName] going low (lower non-critical) has asserted.**

  This message is for the use case when an implementation has detected a lower non-critical sensor going low has asserted.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Fan
  SNMP Trap ID: 165
  CIM Prefix: PLAT CIM ID: 0476

  User Action:

  Complete the following steps until the problem is solved:

  1. Open the battery clip and carefully take the CMOS battery out of the socket. Wait for 20 seconds, and install this battery back to the socket.
  2. Replace the system CMOS battery with a new one that meets Lenovo's specifications.
  3. If the problem persists, collect service data logs.
  4. Contact Lenovo Support.
  5. Note: The RTC / UEFI settings may be cleared if the CMOS battery is removed.

- **FQXSPCA0002M: Fan [NumericSensorName] going low (lower critical) has asserted.**

  This message is for the use case when an implementation has detected a lower critical sensor going low has asserted.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: Yes
  Alert Category: Critical - Fan Failure
  SNMP Trap ID: 11
  CIM Prefix: PLAT CIM ID: 0480

  User Action:

  Complete the following steps until the problem is solved:

  1. Reseat the failed fan reported.
  2. Install the fan into another known good fan slot to see if the issue is resolved.
  3. If the problem persists, collect service data log.
  4. Contact Lenovo Support.

- **FQXSPCA0007J: Ambient temperature going high (upper non-critical) has asserted.**

  This message is for the use case when an implementation has detected an upper non-critical sensor going high has asserted.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Temperature
  SNMP Trap ID: 12
  CIM Prefix: PLAT CIM ID: 0490

  User Action:

  Complete the following steps until the problem is solved:

  1. Check the XCC event log for any fan or cooling related issues and address them first.
  2. Make sure that the airflow at the front and rear of the chassis is not obstructed and that fillers are correctly installed in place and keep clean.
  3. Make sure that the room temperature meets operating specifications.
  4. Upgrade all system firmware and chassis firmware (if applicable) to the latest level.
  5. If the problem persists, collect service data log.
  6. Contact Lenovo Support.

- **FQXSPCA0009M: Ambient temperature going high (upper critical) has asserted.**

  This message is for the use case when an implementation has detected an upper critical sensor going high has asserted.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Temperature
  SNMP Trap ID: 0
  CIM Prefix: PLAT CIM ID: 0494

  User Action:

  Complete the following steps until the problem is solved:

  1. Make sure that the data center Temperature environment is within 47°C degree.
  2. Make sure that there is no hot air in front of the affected system.
  3. If the problem persists, collect service data log.
  4. Contact Lenovo Support.

- **FQXSPCA0011N: Ambient temperature going high (upper non-recoverable) has asserted.**

  This message is for the use case when an implementation has detected an upper non-recoverable sensor going high has asserted.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Temperature
  SNMP Trap ID: 0
  CIM Prefix: PLAT CIM ID: 0498

  User Action:

Complete the following steps until the problem is solved:

1. Make sure that the data center Temperature environment is within 50°C degree.
2. Make sure that there is no hot air in front of the affected system.
3. If the problem persists, collect service data log.
4. Contact Lenovo Support.

- **FQXSPCA0012I: Fan mismatch is recovered.**

  This message is for the use case when an implementation has detected that a sensor transitioned to the normal state.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Fan
  SNMP Trap ID: 165
  CIM Prefix: PLAT CIM ID: 0518

  User Action:

  Information only; no action is required.

- **FQXSPCA0013I: PCIe [SensorName] overtemperature has transitioned to normal state.**

  This message is for the use case when an implementation has detected that a sensor transitioned to the normal state.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Temperature
  SNMP Trap ID: 12
  CIM Prefix: PLAT CIM ID: 0518

  User Action:

  Information only; no action is required.

- **FQXSPCA0016M: Fan Mismatch has transitioned to critical from a less severe state.**

  This message is for the use case when an implementation has detected that a sensor transitioned to critical from less severe.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: Yes
  Alert Category: Critical - Fan Failure
  SNMP Trap ID: 11
  CIM Prefix: PLAT CIM ID: 0522

  User Action:

  Complete the following steps until the problem is solved:

  1. Make sure the type of fans installed meet the thermal requirements of the system configuration. Refer to "Thermal rules" in User Guide to select the correct type of system fans.
  2. Reboot the XCC for fan detection.
  3. If the problem persists, collect service data log.
  4. Contact Lenovo Support.

- **FQXSPCA0017M: PCIe [SensorName] overtemperature has transitioned to critical from a less severe state.**

  This message is for the use case when an implementation has detected that a sensor transitioned to critical from less severe.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Temperature
  SNMP Trap ID: 0
  CIM Prefix: PLAT CIM ID: 0522

  User Action:

  Complete the following steps until the problem is solved:

  1. Check the XCC event log for any fan or cooling related issues and address them first.
  2. Make sure that the airflow at the front and rear of the chassis is not obstructed and that fillers are correctly installed and are in place.
  3. Make sure that the room temperature is within operating specifications.
  4. Upgrade all system and chassis (if applicable) firmware to the latest level.
  5. If the problem persists, collect service data log.
  6. Contact Lenovo Support.

- **FQXSPCA0019N: PCIe [SensorName] overtemperature has transitioned to non-recoverable from a less severe state.**

  This message is for the use case when an implementation has detected that a sensor transitioned to non-recoverable from less severe.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Temperature
  SNMP Trap ID: 0
  CIM Prefix: PLAT CIM ID: 0524

  User Action:

  Complete the following steps until the problem is solved:

  1. Check the XCC event log for any fan or cooling related issues and address them first.
  2. Make sure that the airflow at the front and rear of the chassis is not obstructed and that fillers are correctly installed and are in place.
  3. Make sure that the room temperature is within operating specifications.
  4. Upgrade all system and chassis (if applicable) firmware to the latest level.

     Note: If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before the update.
  5. If the problem persists, collect service data log.
  6. Contact Lenovo Support.

- **FQXSPCA0040N: Liquid is leaking from open loop [CoolingSensorName].**

  This message is for the use case when an implementation has detected that cooling liquid has been leaking.

Severity: Error
Serviceable: Yes
Automatically notify Support: No
Alert Category: Critical - Other
SNMP Trap ID: 50
CIM Prefix: PLAT CIM ID: 0866

User Action:

Complete the following steps until the problem is solved:

1. Reboot XCC or do AC cycle.
2. If the problem persists, collect service data logs.
3. Contact Lenovo Support.

- **FQXSPCA0041N: Liquid is leaking from closed loop [CoolingSensorName].**

  This message is for the use case when an implementation has detected that cooling liquid has been leaking.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0867

  User Action:

  Complete the following steps until the problem is solved:

  1. Check whether there is any coolant leakage found on the system board assembly.
  2. If yes, turn off the power, remove the AC power cable and contact Lenovo Support for part replacement.
  3. If not, please reboot XCC or do AC cycle
  4. If the problem persists, collect service data logs.
  5. Contact Lenovo Support.

- **FQXSPCA0042M: Liquid leak detector for [DeviceType] is faulty.**

  This message is for the use case when an implementation has detected that liquid leak detector fault has occurred.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0868

  User Action:

  Complete the following steps until the problem is solved:

  1. Check if there is a de-assert event (FQXSPCA2042I) triggered.
  2. If yes, please ignore this event.
  3. If the problem persists, collect service data logs.
  4. Contact Lenovo Support.

- **FQXSPCA0046J: DIMM [DIMMId] temperature going high (upper non-critical) has asserted.**

  This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has asserted.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Temperature
  SNMP Trap ID: 12
  CIM Prefix: PLAT CIM ID: 0877

  User Action:

  Complete the following steps until the problem is solved:

  1. Check the XCC event log for any fan or cooling related issues and address them first.
  2. Make sure that the airflow at the front and rear of the chassis is not obstructed and that fillers are correctly installed and are in place.
  3. Make sure that the room temperature is within operating specifications.
  4. Upgrade all system and chassis (if applicable) firmware to the latest level.

     Note: If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before the update.
  5. If the problem persists, collect service data log.
  6. Contact Lenovo Support.

- **FQXSPCA0047M: DIMM [DIMMId] temperature going high (upper critical) has asserted.**

  This message is for the use case when an implementation has detected an Upper critical sensor going high has asserted.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Temperature
  SNMP Trap ID: 0
  CIM Prefix: PLAT CIM ID: 0879

  User Action:

  Complete the following steps until the problem is solved:

  1. Check the XCC event log for any fan or cooling related issues and address them first.
  2. Make sure that the airflow at the front and rear of the chassis is not obstructed and that fillers are correctly installed and are in place.
  3. Make sure that the room temperature is within operating specifications.
  4. Upgrade all system and chassis (if applicable) firmware to the latest level.

     Note: If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before the update.
  5. If the problem persists, collect service data log.
  6. Contact Lenovo Support.

- **FQXSPCA0048M: DIMM [DIMMId] temperature going high (upper non-recoverable) has asserted.**

This message is for the use case when an implementation has detected an Upper non-recoverable sensor going high has asserted.

Severity: Error
Serviceable: Yes
Automatically notify Support: No
Alert Category: Critical - Temperature
SNMP Trap ID: 0
CIM Prefix: PLAT CIM ID: 0881

User Action:

Complete the following steps until the problem is solved:

1. Check the XCC event log for any fan or cooling related issues and address them first.
2. Make sure that the airflow at the front and rear of the chassis is not obstructed and that fillers are correctly installed and are in place.
3. Make sure that the room temperature is within operating specifications.
4. Upgrade all system and chassis (if applicable) firmware to the latest level.

   Note: If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before the update.
5. If the problem persists, collect service data log.
6. Contact Lenovo Support.

- **FQXSPCA0049J: Pump tach [pumpFanIndex] going high (upper non-critical) has asserted.**

This message is for the use case when an implementation has detected pump device when tach is higher than non-critical threshold.

Severity: Warning
Serviceable: Yes
Automatically notify Support: No
Alert Category: Warning - Fan
SNMP Trap ID: 165
CIM Prefix: PLAT CIM ID: 0883

User Action:

Complete the following steps until the problem is solved:

1. Reseat the pump.
2. If the problem persists, collect service data log.
3. Contact Lenovo Support.

- **FQXSPCA0050M: Pump tach [pumpFanIndex] going high (upper critical) has asserted.**

This message is for the use case when an implementation has detected pump device when tach is higher than upper critical threshold.

Severity: Error
Serviceable: Yes
Automatically notify Support: No
Alert Category: Critical - Fan Failure
SNMP Trap ID: 11
CIM Prefix: PLAT CIM ID: 0885

User Action:

Complete the following steps until the problem is solved:

1. Reseat the pump.
2. If the problem persists, collect service data log.
3. Contact Lenovo Support.

- **FQXSPCA0051N: Pump tach [pumpFanIndex] going high (upper non-recoverable) has asserted.**

  This message is for the use case when an implementation has detected pump device when tach is higher than non-recoverable threshold.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Fan Failure
  SNMP Trap ID: 11
  CIM Prefix: PLAT CIM ID: 0887

  User Action:

  Complete the following steps until the problem is solved:

  1. Reseat the pump.
  2. If the problem persists, collect service data log.
  3. Contact Lenovo Support.

- **FQXSPCA0052M: Pump tach [pumpFanIndex] going low (lower critical) has asserted.**

  This message is for the use case when an implementation has detected pump device when tach is lower than critical threshold.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Fan Failure
  SNMP Trap ID: 11
  CIM Prefix: PLAT CIM ID: 0889

  User Action:

  Complete the following steps until the problem is solved:

  1. Reseat the pump.
  2. If the problem persists, collect service data log.
  3. Contact Lenovo Support.

- **FQXSPCA2000I: Fan [NumericSensorName] going low (lower non-critical) has deasserted.**

  This message is for the use case when an implementation has detected a lower non-critical sensor going low has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Fan
  SNMP Trap ID: 165
  CIM Prefix: PLAT CIM ID: 0477

  User Action:

  Information only; no action is required.

- **FQXSPCA2002I: Fan [NumericSensorName] going low (lower critical) has deasserted.**

  This message is for the use case when an implementation has detected a lower critical sensor going low has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Fan Failure
  SNMP Trap ID: 11
  CIM Prefix: PLAT CIM ID: 0481

  User Action:

  Information only; no action is required.

- **FQXSPCA2007I: Ambient temperature going high (upper non-critical) has deasserted.**

  This message is for the use case when an implementation has detected an upper non-critical sensor going high has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Temperature
  SNMP Trap ID: 12
  CIM Prefix: PLAT CIM ID: 0491

  User Action:

  Information only; no action is required.

- **FQXSPCA2009I: Ambient temperature going high (upper critical) has deasserted.**

  This message is for the use case when an implementation has detected an upper critical sensor going high has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Temperature
  SNMP Trap ID: 0
  CIM Prefix: PLAT CIM ID: 0495

  User Action:

  Information only; no action is required.

- **FQXSPCA2011I: Ambient temperature going high (upper non-recoverable) has deasserted.**

  This message is for the use case when an implementation has detected an upper non-recoverable sensor going high has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Temperature
  SNMP Trap ID: 0
  CIM Prefix: PLAT CIM ID: 0499

  User Action:

  Information only; no action is required.

- **FQXSPCA2016I: Fan Mismatch has transitioned to a less severe state from critical.**

  This message is for the use case when an implementation has detected that a sensor transitioned to less severe from critical.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Fan Failure
  SNMP Trap ID: 11
  CIM Prefix: PLAT CIM ID: 0523

  User Action:

  Information only; no action is required.

- **FQXSPCA2017I: PCIe [SensorName] overtemperature has transitioned to a less severe state from critical.**

  This message is for the use case when an implementation has detected that a sensor transitioned to less severe from critical.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Temperature
  SNMP Trap ID: 0
  CIM Prefix: PLAT CIM ID: 0523

  User Action:

  Information only; no action is required.

- **FQXSPCA2019I: PCIe [SensorName] overtemperature has deasserted the transition to non-recoverable from a less severe state.**

  This message is for the use case when an implementation has detected that the sensor transitioned to non-recoverable from less severe has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Temperature
  SNMP Trap ID: 0
  CIM Prefix: PLAT CIM ID: 0525

  User Action:

  Information only; no action is required.

- **FQXSPCA2042I: Liquid leak detector for [DeviceType] is recovered.**

  This message is for the use case when an implementation has detected that liquid leak detector fault has recovered.

  Severity: Info
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0869

User Action:

Information only; no action is required.

- **FQXSPCA2046I: DIMM [DIMMId] temperature going high (upper non-critical) has deasserted.**

  This message is for the use case when an implementation has detected an Upper Non-critical sensor going high has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Temperature
  SNMP Trap ID: 12
  CIM Prefix: PLAT CIM ID: 0878

  User Action:

  Information only; no action is required.

- **FQXSPCA2047I: DIMM [DIMMId] temperature going high (upper critical) has deasserted.**

  This message is for the use case when an implementation has detected an Upper critical sensor going high has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Temperature
  SNMP Trap ID: 0
  CIM Prefix: PLAT CIM ID: 0880

  User Action:

  Information only; no action is required.

- **FQXSPCA2048I: DIMM [DIMMId] temperature going high (upper non-recoverable) has deasserted.**

  This message is for the use case when an implementation has detected an Upper non-recoverable sensor going high has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Temperature
  SNMP Trap ID: 0
  CIM Prefix: PLAT CIM ID: 0882

  User Action:

  Information only; no action is required.

- **FQXSPCA2049I: Pump tach [pumpFanIndex] going high (upper non-critical) has deasserted.**

  This message is for the use case when an implementation has detected pump device when tach is lower than non-critical threshold.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Fan
  SNMP Trap ID: 165
  CIM Prefix: PLAT CIM ID: 0884

User Action:

Information only; no action is required.

- **FQXSPCA2050I: Pump tach [pumpFanIndex] going high (upper critical) has deasserted.**

  This message is for the use case when an implementation has detected pump device when tach is lower than upper critical threshold.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Fan Failure
  SNMP Trap ID: 11
  CIM Prefix: PLAT CIM ID: 0886

  User Action:

  Information only; no action is required.

- **FQXSPCA2051I: Pump tach [pumpFanIndex] going high (upper non-recoverable) has deasserted.**

  This message is for the use case when an implementation has detected pump device when tach is lower than non-recoverable threshold.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Fan Failure
  SNMP Trap ID: 11
  CIM Prefix: PLAT CIM ID: 0888

  User Action:

  Information only; no action is required.

- **FQXSPCA2052I: Pump tach [pumpFanIndex] going low (lower critical) has deasserted.**

  This message is for the use case when an implementation has detected pump device when tach is higher than non-recoverable threshold.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Fan Failure
  SNMP Trap ID: 11
  CIM Prefix: PLAT CIM ID: 0890

  User Action:

  Information only; no action is required.

- **FQXSPCN4000I: Serial Redirection set by user [arg1]: Mode=[arg2], BaudRate=[arg3], StopBits=[arg4], Parity=[arg5], SessionTerminateSequence=[arg6] from [arg7] at IP address [arg8].**

  A user configured the serial port mode.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0078

User Action:

Information only; no action is required.

- **FQXSPCN4002I: User [arg1] has terminated an active CLI console session from [arg2] at IP address [arg3].**

  A user has terminated an active CLI console session.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0145

  User Action:

  Information only; no action is required.

- **FQXSPCN4004I: User [arg1] has created an active [arg2] console session from [arg3] at IP address [arg4].**

  A user has created an IPMI/CLI console session.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0317

  User Action:

  Information only; no action is required.

- **FQXSPCN4005I: A [arg1] console session is timeout.**

  An IPMI/CLI console session is timeout.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0318

  User Action:

  Information only; no action is required.

- **FQXSPCN4006I: User [arg1] has terminated an active IPMI console session from [arg2] at IP address [arg3].**

  A user has terminated an active IPMI console session.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0319

User Action:

Information only; no action is required.

- **FQXSPCP0001G: Device [DeviceName] mismatch with the system.**

  This message is for the use case when an implementation has detected that a device mismatch with the system.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0862

  User Action:

  Complete the following steps until the problem is solved:

  1. Power off the server, disconnect the AC power cable and reconnectaffected adapter and riser card.
  2. If the problem persists, upgrade XCC, FPGA, and UEFI to the latest versions.
  3. If the problem persists, collect service data logs.
  4. Contact Lenovo Support.

- **FQXSPDM4000I: Inventory data changed for device [arg1], new device data hash=[arg2], new master data hash=[arg3].**

  Something has caused the physical inventory to change.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0072

  User Action:

  Information only; no action is required.

- **FQXSPDM4003I: TKLM servers set by user [arg1]: TKLMServer1=[arg2] Port=[arg3], TKLMServer2=[arg4] Port=[arg5], TKLMServer3=[arg6] Port=[arg7], TKLMServer4=[arg8] Port=[arg9] from [arg10] at IP address [arg11].**

  A user configured the TKLM servers.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0146

  User Action:

  Information only; no action is required.

- **FQXSPDM4004I: TKLM servers device group set by user [arg1]: TKLMServerDeviceGroup=[arg2] from [arg3] at IP address [arg4].**

  A user configured the TKLM device group.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0147

User Action:

Information only; no action is required.

- **FQXSPDM4005I: User [arg1] has generated a new encryption key pair and installed a self-signed certificate for the TKLM client from [arg2] at IP address [arg3].**

  A user generated a new encryption key pair and installed a self-signed certificate for the TKLM client.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0148

  User Action:

  Information only; no action is required.

- **FQXSPDM4006I: User [arg1] has generated a new encryption key and certificate signing request for the TKLM client from [arg2] at IP address [arg3].**

  A user generated a new encryption key and certificate signing request for the TKLM client.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0149

  User Action:

  Information only; no action is required.

- **FQXSPDM4007I: User [arg1] has imported a signed certificate for the TKLM client from [arg2] from [arg3] at IP address [arg4].**

  A user imported a signed certificate for the TKLM client.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0150

  User Action:

  Information only; no action is required.

- **FQXSPDM4008I: User [arg1] has imported a server certificate for the TKLM server from [arg2] at IP address [arg3].**

A user imported a server certificate for the TKLM server.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0151

User Action:

Information only; no action is required.

- **FQXSPDM4009I: User [arg1] has [arg2] file [arg3] from [arg4] at IP address [arg5].**

  A user has mounted/unmounted file from a URL or server.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0162

  User Action:

  Information only; no action is required.

- **FQXSPDM4011I: EKMS server protocol set by user [arg1]: TKLMServerProtocol=[arg2] from [arg3] at IP address [arg4].**

  A user configured the EKMS server protocol.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0293

  User Action:

  Information only; no action is required.

- **FQXSPDM4012I: User [arg1] has changed the polling configuration for the key management server: Polling enabled=[arg2], interval=[arg3].**

  A user changed the polling configuration for the key management server.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0334

  User Action:

  Information only; no action is required.

- **FQXSPDM4013I: User [arg1] has changed the caching configuration for the key management server: Caching enabled=[arg2], timeout=[arg3].**

A user changed the caching configuration for the key management server.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0335

User Action:

Information only; no action is required.

- **FQXSPEA0003J: Link down is detected on port [PCIPortNumber] of the PCIe device [PCIDeviceName].**

  This message is for the use case when an implementation has detected a link down of a PCIe device.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0520

  User Action:

  1. Information only; no action is required.
  2. Note: This event will be set to Warning Severity for the LAN on Motherboard (LOM) interface and Informational Severity for all other Network Adapters present where link status can be monitored.

- **FQXSPEA2003I: Link up is detected on port [[1]] of the PCIe device [[2]] in slot [[3]].**

  This message is for the use case when an implementation has detected that a link up of a PCIe device.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0521

  User Action:

  Information only; no action is required.

- **FQXSPEM4000I: The [arg1] on system [arg2] cleared by user [arg3] from [arg4] at IP address [arg5].**

  This message is for the use case where a management controller event log on a system is cleared by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0020

  User Action:

  Information only; no action is required.

- **FQXSPEM4003I: LED [arg1] state changed to [arg2] by [arg3] from [arg4] at IP address [arg5].**

  A user has modified the state of an LED.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0071

  User Action:

  Information only; no action is required.

- **FQXSPEM4004I: SNMP [arg1] enabled by user [arg2] from [arg3] at IP address [arg4].**

  A user enabled SNMPv1 or SNMPv3 or Traps.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0073

  User Action:

  Information only; no action is required.

- **FQXSPEM4005I: SNMP [arg1] disabled by user [arg2] from [arg3] at IP address [arg4].**

  A user disabled SNMPv1 or SNMPv3 or Traps.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0074

  User Action:

  Information only; no action is required.

- **FQXSPEM4006I: Alert Configuration Global Event Notification set by user [arg1]: RetryLimit=[arg2], RetryInterval=[arg3], EntryInterval=[arg4] from [arg5] at IP address [arg6].**

  A user changes the global event notification settings.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0110

  User Action:

  Information only; no action is required.

- **FQXSPEM4007I: Alert Recipient Number [arg1] by syslog is updated: Name=[arg2], DeliveryMethod=[arg3], Address=[arg4], IncludeLog=[arg5], Enabled=[arg6], EnabledAlerts=-crt<[arg7]> -wrn<[arg8]> -sys<[arg9]> by user [arg10] from [arg11] at IP address [arg12].**

  A user adds or updates a syslog alert recipient.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0111

  User Action:

  Information only; no action is required.

- **FQXSPEM4008I: SNMP Traps enabled by user [arg1]: EnabledAlerts=-crt<[arg2]> -wrn<[arg3]> -sys<[arg4]> from [arg5] at IP address [arg6].**

  A user enabled the SNMP Traps configuration.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0112

  User Action:

  Information only; no action is required.

- **FQXSPEM4009I: The UEFI Definitions have been changed.**

  UEFI Definitions change has been detected.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0152

  User Action:

  Information only; no action is required.

- **FQXSPEM4011I: XCC failed to log previous event [arg1].**

  XCC failed to log a previous event.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0196

  User Action:

  Information only; no action is required.

- **FQXSPEM4012I: User [arg1] made system [arg2] Encapsulation lite Mode from [arg3] at IP address [arg4].**

  Encapsulation lite mode status change.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0201

  User Action:

  Information only; no action is required.

- **FQXSPEM4028I: The port [arg1] of PCIe device [arg2] has link [arg3].**

  A PCIe device linked.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - NIC Link up/down
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0220

  User Action:

  Information only; no action is required.

- **FQXSPEM4031I: SSD wear [arg1] threshold setting is changed from [arg2] to [arg3] by user [arg4] from [arg5] at IP address [arg6].**

  SSD wear warning or critical threshold setting is changed by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0273

  User Action:

  Information only; no action is required.

- **FQXSPEM4041I: The SmartNIC in slot [arg1] encountered boot timeout.**

  SmartNIC in a certain slot encountered boot timeout.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0312

  User Action:

  Information only; no action is required.

- **FQXSPEM4042I: The SmartNIC in slot [arg1] went through a crash dump.**

SmartNIC in a certain slot went through a crash dump.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0313

User Action:

Information only; no action is required.

- **FQXSPEM4043I: A [arg1] failure has been detected and need [arg2] to recover.**

  A backplane failure has detected.

  Severity: Warning
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: IMM CIM ID: 0320

  User Action:

  Information only; no action is required.

- **FQXSPEM4046I: Alert Recipient Number [arg1] by email is updated: Name=[arg2], DeliveryMethod=[arg3], EmailAddress=[arg4], IncludeLog=[arg5], Enabled=[arg6], EnabledAlerts=-crt<[arg7]> -wrn<[arg8]> -sys<[arg9]> by user [arg10] from [arg11] at IP address [arg12].**

  A user adds or updates an email alert recipient.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0352

  User Action:

  Information only; no action is required.

- **FQXSPEM4047I: LED [arg1] state changed to [arg2] with physical button.**

  A user physically depress the location LED button to change the state of the LED.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0356

  User Action:

  Information only; no action is required.

- **FQXSPFC4000I: The bare metal connection process has been started.**

  Bare metal connection process has been started.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0143

User Action:

Information only; no action is required.

- **FQXSPFC4001I: The bare metal update application reports a status of [arg1].**

  Bare metal update application reports a status.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0144

  User Action:

  Information only; no action is required.

- **FQXSPFW0001N: Firmware BIOS (ROM) corruption was detected on system [ComputerSystemName] during POST.**

  Firmware BIOS (ROM) corruption was detected on the system during POST. The computer system object path element contains the CIM object path to the computer system.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0850

  User Action:

  Complete the following steps until the problem is solved:

  1. DC cycle the system.
  2. Flash UEFI to latest version.
  3. If the problem persists, collect service data log.
  4. Contact Lenovo Support.

- **FQXSPFW0004I: UEFI advanced memory test is running.**

  This message is for the use case when an implementation has detected that system firmware progress has occurred.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0188

  User Action:

Information only; no action is required.

- **FQXSPFW0005I: UEFI advanced memory test is completed.**

  This message is for the use case when an implementation has detected that system firmware progress has occurred.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0188

  User Action:

  Information only; no action is required.

- **FQXSPFW0006I: UEFI advanced memory test is interrupted.**

  This message is for the use case when an implementation has detected that system firmware progress has occurred.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0188

  User Action:

  Information only; no action is required.

- **FQXSPFW0007I: UEFI advanced memory test encountered a hang.**

  This message is for the use case when an implementation has detected that system firmware progress has occurred.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0188

  User Action:

  Complete the following steps until the problem is solved:

  1. Make sure the LXPM is on the latest version
  2. Re-run the advanced memory test.
  3. If the problem persists, collect service data log.
  4. Contact Lenovo Support.

- **FQXSPFW2001I: The System [ComputerSystemName] has detected a POST Error deassertion - firmware(BIOS) ROM corruption detected.**

  This message is for the use case when an implementation has detected that POST error has deasserted.

  Severity: Info
  Serviceable: No

Automatically notify Support: No
Alert Category: Critical - Other
SNMP Trap ID: 50
CIM Prefix: PLAT CIM ID: 0185

User Action:

Information only; no action is required.

- **FQXSPIO0000I: The connector [PhysicalConnectorName] has been detected as present or connected.**

  This message is for the use case when an implementation has detected that a connector has been connected.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0264

  User Action:

  Information only; no action is required.

- **FQXSPIO0004L: A bus timeout has occurred on bus [BusName].**

  This message is for the use case when an implementation has detected a bus timeout.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0224

  User Action:

  Complete the following steps until the problem is solved:

  1. Reseat the processor.
  2. If the problem persists, collect service data log.
  3. Contact Lenovo Support.

- **FQXSPIO0005N: An I/O Channel Check NMI has occurred on system [ComputerSystemName].**

  This message is for the use case when an implementation has detected a I/O channel check NMI.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0226

  User Action:

  Information only; no action is required.

- **FQXSPIO0006N: A software NMI has occurred on system [ComputerSystemName].**

This message is for the use case when an implementation has detected a software NMI.

Severity: Error
Serviceable: Yes
Automatically notify Support: No
Alert Category: Critical - Other
SNMP Trap ID: 50
CIM Prefix: PLAT CIM ID: 0228

User Action:

Complete the following steps until the problem is solved:

1. Make sure that the reported device is in Lenovo server's SPP list.
2. Make sure that all the sub-system drivers use the latest version to avoid notable issues.
3. Make sure that all the sub-system components use the latest version of firmware to avoid notable issues.
4. If the problem persists, collect service data log and OS memory dump.
5. Contact Lenovo Support.

- **FQXSPIO0010I: A Correctable Bus Error has occurred on bus [BusName].**

This message is for the use case when an implementation has detected a bus correctable error.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: PLAT CIM ID: 0238

User Action:

Information only; no action is required.

- **FQXSPIO0011N: An Uncorrectable Error has occurred on PCIs.**

This message is for the use case when an implementation has detected a bus uncorrectable error.

Severity: Error
Serviceable: Yes
Automatically notify Support: Yes
Alert Category: Critical - Other
SNMP Trap ID: 50
CIM Prefix: PLAT CIM ID: 0240

User Action:

Complete the following steps until the problem is solved:

1. Check Lenovo Support (http://support.lenovo.com/) for an applicable service bulletin or firmware update for the system or adapter that applies to this error.
2. Upgrade all system firmware and chassis firmware (if applicable) to the latest level.

   Note: If the device is part of a cluster solution, verify that the latest level of code is supported by the cluster solution before the update.
3. If the problem persists, collect service data log.
4. Contact Lenovo Support.

- **FQXSPIO0013N: A Fatal Bus Error has occurred on bus [BusName].**

  This message is for the use case when an implementation has detected a bus fatal error.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0244

  User Action:

  Complete the following steps until the problem is solved:

  1. Check Lenovo Support (http://support.lenovo.com/) for an applicable service bulletin or firmware update for the system or adapter that applies to this error.
  2. Upgrade all system firmware and chassis firmware (if applicable) to the latest level.

     Note: If the device is part of a cluster solution, verify that the latest level of code is supported by the cluster solution before the update.
  3. If the problem persists, collect service data log.
  4. Contact Lenovo Support.

- **FQXSPIO0014J: Bus [BusName] is operating in a degraded state.**

  This message is for the use case when an implementation has detected a bus is degraded.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0246

  User Action:

  Complete the following steps until the problem is solved:

  1. Check Lenovo Support (http://support.lenovo.com/) for an applicable service bulletin or firmware update for the system or adapter that applies to this error.
  2. Upgrade all system firmware and chassis firmware (if applicable) to the latest level.

     Note: If the device is part of a cluster solution, verify that the latest level of code is supported by the cluster solution before the update.
  3. If the problem persists, collect service data log.
  4. Contact Lenovo Support.

- **FQXSPIO0024M: [BackplaneName] has invalid cabling configuration.**

  This message is for the use case when invalid cabling configuration is detected on a backplane.

  Severity: Error
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0895

  User Action:

Complete the following steps until the problem is solved:

1. Power off the server, disconnect the AC power cable and reconnect the signal cable or power cable of the affected backplane.
2. Refer to the E3.S drive backplane connection label attached on the chassis to check the cable connection.
3. If the problem persists, update the Drive Backplane and Boot Kit PSOC Firmware to the latest version.
4. If the problem persists, upgrade XCC, FPGA, and UEFI to the latest versions.
5. If the problem persists, collect service data logs.
6. Contact Lenovo Support.

- **FQXSPIO0027M: Fault in M2 adapter(serial number: [SerialNumber]) on system [ComputerSystemName].**

  This message is for the use case when an implementation has detected a fault in a slot.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: Yes
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0330

  User Action:

  Complete the following steps until the problem is solved:

  1. Reseat the affected M.2 adapter.
  2. Update the server firmware (UEFI and XCC) and adapter firmware.

     Note: Some cluster solutions require specific code levels or coordinated code updates.
  3. If the device is part of a cluster solution, verify that the latest level of code is supported by the cluster solution before the update.
  4. If the problem persists, collect service data log.
  5. Contact Lenovo Support.

- **FQXSPIO0031M: PCIe devices have fault.**

  This message is for the use case when an implementation has detected a fault in a slot.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: Yes
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0330

  User Action:

  Complete the following steps until the problem is solved:

  1. Reseat the affected adapters and riser card.
  2. Update the server firmware (UEFI and XCC) and adapter firmware.

     Note: Some cluster solutions require specific code levels or coordinated code updates.

3. If the device is part of a cluster solution, verify that the latest level of code is supported by the cluster solution before the update.
4. If the problem persists, collect service data log.
5. Contact Lenovo Support.

- **FQXSPIO0032I: Device [DeviceType] [DeviceIndex] is installed.**

  This message is for the use case when an implementation has detected that a device has installed.

  Severity: Info
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0859

  User Action:

  Information only; no action is required.

- **FQXSPIO0033I: Device [DeviceType] [DeviceIndex] is uninstalled**

  This message is for the use case when an implementation has detected that a device has uninstalled.

  Severity: Info
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0860

  User Action:

  Information only; no action is required.

- **FQXSPIO0034I: Connector [ConnectorName] is linked to [DeviceType] [DeviceIndex].**

  This message is for the use case when an implementation has detected that a connector has linked.

  Severity: Info
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0861

  User Action:

  Information only; no action is required.

- **FQXSPIO0035G: [DeviceName] is installed in wrong location.**

  This message is for the use case when an implementation has detected that a device has been installed in wrong location.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0863

User Action:

Complete the following steps until the problem is solved:

1. Power off the server, disconnect the AC power cable and reconnectaffected adapter and riser card.
2. If the problem persists, upgrade XCC, FPGA, and UEFI to the latest versions.
3. If the problem persists, collect service data logs.
4. Contact Lenovo Support.

- **FQXSPIO0036G: Signal cable and power cable are misconnected for [DeviceName]. Should connect signal cable [RiserOrBPConnectorName1] to [MCIOorMXIOConnectName1], [RiserOrBPConnectorName2] to [MCIOorMXIOConnectName2].**

  This message is for the use case when an implementation has detected that a device cable has been misconnected.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0864

  User Action:

  Complete the following steps until the problem is solved:

  1. Power off the server, disconnect the AC power cable and reconnect the signal cable or power cable of the affected riser card.
  2. Refer to the reported message and Cable Routing Guide to connect the signal cable or power cable to the correct connector.
  3. If the problem persists, upgrade XCC, FPGA, and UEFI to the latest versions.
  4. If the problem persists, collect service data logs.
  5. Contact Lenovo Support.

- **FQXSPIO0037G: Signal cable and power cable are misconnected for [DeviceName]. Should connect signal cable [MCIOorMXIOConnectName].**

  This message is for the use case when an implementation has detected that a device cable has been misconnected.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0864

  User Action:

  Complete the following steps until the problem is solved:

  1. Power off the server, disconnect the AC power cable and reconnect the signal cable or power cable of the affected riser card.
  2. Refer to the reported message and Cable Routing Guide to connect the signal cable or power cable to the correct connector.
  3. If the problem persists, upgrade XCC, FPGA, and UEFI to the latest versions.
  4. If the problem persists, collect service data logs.

5. Contact Lenovo Support.

- **FQXSPIO0038G: Signal cable of [DeviceName] is not connected, Should connect to [MCIOorMXIOConnectName].**

  This message is for the use case when an implementation has detected that a signal cable of device has not been connected.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0897

  User Action:

  Complete the following steps until the problem is solved:

  1. Power off the server, disconnect the AC power cable and reconnect the signal cable or power cable of the affected riser card.
  2. Refer to the reported message and Cable Routing Guide to connect the signal cable or power cable to the correct connector.
  3. If the problem persists, upgrade XCC, FPGA, and UEFI to the latest versions.
  4. If the problem persists, collect service data logs.
  5. Contact Lenovo Support.

- **FQXSPIO0039G: Signal cable of [DeviceName] is misconnected to [WrongConnectorName]. Should connect to [MCIOorMXIOConnectName].**

  This message is for the use case when an implementation has detected that a signal cable of device has been misconnected.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0898

  User Action:

  Complete the following steps until the problem is solved:

  1. Power off the server, disconnect the AC power cable and reconnect the signal cable or power cable of the affected riser card.
  2. Refer to the reported message and Cable Routing Guide to connect the signal cable or power cable to the correct connector.
  3. If the problem persists, upgrade XCC, FPGA, and UEFI to the latest versions.
  4. If the problem persists, collect service data logs.
  5. Contact Lenovo Support.

- **FQXSPIO0040G: Signal cable [SignalCableName] of [DeviceName] is not connected. Should connect to [MCIOorMXIOConnectName].**

  This message is for the use case when an implementation has detected that a signal cable of device has not been connected.

Severity: Warning
Serviceable: Yes
Automatically notify Support: No
Alert Category: Warning - Other
SNMP Trap ID: 60
CIM Prefix: PLAT CIM ID: 0899

User Action:

Complete the following steps until the problem is solved:

1. Power off the server, disconnect the AC power cable and reconnect the signal cable or power cable of the affected riser card.
2. Refer to the reported message and Cable Routing Guide to connect the signal cable or power cable to the correct connector.
3. If the problem persists, upgrade XCC, FPGA, and UEFI to the latest versions.
4. If the problem persists, collect service data logs.
5. Contact Lenovo Support.

- **FQXSPIO0041G: Signal cable [SignalCableName] of [DeviceName] is misconnected to [WrongMCIOorMXIOConnectName]. Should connect to [RightMCIOorMXIOConnectName].**

  This message is for the use case when an implementation has detected that a signal cable of device has been misconnected.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0900

  User Action:

  Complete the following steps until the problem is solved:

  1. Power off the server, disconnect the AC power cable and reconnect the signal cable or power cable of the affected riser card.
  2. Refer to the reported message and Cable Routing Guide to connect the signal cable or power cable to the correct connector.
  3. If the problem persists, upgrade XCC, FPGA, and UEFI to the latest versions.
  4. If the problem persists, collect service data logs.
  5. Contact Lenovo Support.

- **FQXSPIO2000J: The connector [PhysicalConnectorName] has been disconnected.**

  This message is for the use case when an implementation has detected that a connector was disconnected.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0265

  User Action:

Complete the following steps until the problem is solved:

1. Re-install COM Port Card/VGA connector and cable.
2. Check Lenovo Support for known service bulletins and Tech Tips.
3. If the problem persists, collect service data log.
4. Contact Lenovo Support.

- **FQXSPIO2004I: Bus [BusName] has recovered from a bus timeout.**

  This message is for the use case when an implementation has detected that a system has recovered from a bus timeout.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0225

  User Action:

  Information only; no action is required.

- **FQXSPIO2005I: System [ComputerSystemName] has recovered from I/O Channel Check NMI.**

  This message is for the use case when an implementation has detected a software NMI has been recovered.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0230

  User Action:

  Information only; no action is required.

- **FQXSPIO2006I: System [ComputerSystemName] has recovered from software NMI.**

  This message is for the use case when an implementation has detected a Software NMI has been recovered.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0230

  User Action:

  Information only; no action is required.

- **FQXSPIO2010I: Bus [BusName] has recovered from a Correctable Bus Error.**

  This message is for the use case when an implementation has detected that a system has recovered from a bus correctable error.

  Severity: Info
  Serviceable: No

Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: PLAT CIM ID: 0239

User Action:

Information only; no action is required.

- **FQXSPIO2011I: PCIs has recovered from an Uncorrectable Error.**

  This message is for the use case when an implementation has detected a that a system has recovered from a bus uncorrectable error.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0241

  User Action:

  Information only; no action is required.

- **FQXSPIO2013I: Bus [BusName] has recovered from a Fatal Bus Error.**

  This message is for the use case when an implementation has detected that a system has recovered from a bus fatal error.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0245

  User Action:

  Information only; no action is required.

- **FQXSPIO2014I: Bus [BusName] is no longer operating in a degraded state.**

  This message is for the use case when an implementation has detected a bus is no longer degraded.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0247

  User Action:

  Information only; no action is required.

- **FQXSPIO2027I: Fault condition removed in M2 adapter(serial number: [SerialNumber]) on system [ComputerSystemName].**

  This message is for the use case when an implementation has detected a fault condition in a slot has been removed.

  Severity: Info

Serviceable: No
Automatically notify Support: No
Alert Category: Critical - Other
SNMP Trap ID: 50
CIM Prefix: PLAT CIM ID: 0331

User Action:

Information only; no action is required.

- **FQXSPIO2031I: Fault condition removed All PCIe devices on system [ComputerSystemName].**

  This message is for the use case when an implementation has detected a fault condition in a slot has been removed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0331

  User Action:

  Information only; no action is required.

- **FQXSPMA0010J: DIMM [DIMMId] on system [MemoryName] is throttled.**

  This message is for the use case when an implementation has detected memory has been throttled.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0142

  User Action:

  Complete the following steps until the problem is solved:

  1. Check the XCC event log for any fan or cooling related issues and address them first.
  2. Make sure that the airflow at the front and rear of the chassis is not obstructed and that fillers are correctly installed and are in place.
  3. Make sure that the room temperature is within operating specifications.
  4. Upgrade all system and chassis (if applicable) firmware to the latest level.

     Note: If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before the update.
  5. If the problem persists, collect service data log.
  6. Contact Lenovo Support.

- **FQXSPMA0012M: An Over-Temperature Condition has been detected on the DIMM [DIMMId] on system [MemoryName].**

  This message is for the use case when an implementation has detected an over-temperature condition for memory that has been detected.

  Severity: Error
  Serviceable: Yes

Automatically notify Support: No
Alert Category: Critical - Temperature
SNMP Trap ID: 0
CIM Prefix: PLAT CIM ID: 0146

User Action:

Complete the following steps until the problem is solved:

1. Check the event log of system management module and xClarity Controller for any fan or cooling related issues.
2. Make sure that the airflow at the front and rear of the chassis is not obstructed and that fillers are in place and correctly installed.
3. Make sure that the room temperature is within operating specifications.
4. Make sure that the DIMM and Drive baffles are in place if applicable.
5. If the problem persists, collect service data log.
6. Contact Lenovo Support.

- **FQXSPMA0025I: BMC LAN failover from dedicate to shared.**

  This message is for the use case when an implementation has detected a sensor has asserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0508

  User Action:

  Information only; no action is required.

- **FQXSPMA0039G: DIMM [DIMMID] is disabled.**

  This message is for the use case when an implementation has detected a sensor has asserted.

  Severity: Warning
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Memory
  SNMP Trap ID: 43
  CIM Prefix: PLAT CIM ID: 0508

  User Action:

  Complete the following steps until the problem is solved:

  1. Check if there is any other memory related message reported prior to this event.
  2. If the DIMM configuration was changed prior to this failure, verify that the DIMMs are installed in the correct population sequence.
  3. If there is any DIMM POST test failed, reseat the DIMM failed the POST memory test and the DIMMs on adjacent slots if populated. Boot to F1 setup and enable the DIMM. Reboot the system.
  4. If the DIMMs have been upgraded just prior to the issue, update UEFI to the latest version.
  5. If the problem persists, collect service data logs.
  6. Contact Lenovo Support.

- **FQXSPMA0130N: Memory PMIC [MemoryPMICGroup] has transitioned to non-recoverable.**

This message is for the use case when an implementation has detected a memory PMIC non-recoverable fault has occurred.

Severity: Error
Serviceable: Yes
Automatically notify Support: No
Alert Category: Critical - Memory
SNMP Trap ID: 41
CIM Prefix: PLAT CIM ID: 0854

User Action:

Complete the following steps:

1. remove A/C power and any recently installed components.
2. If the problem persists, collect service data log.
3. Contact Lenovo Support.

- **FQXSPMA2010I: DIMM [DIMMId] on system [MemoryName] is no longer throttled.**

  This message is for the use case when an implementation has detected memory is no longer throttled.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0143

  User Action:

  Information only; no action is required.

- **FQXSPMA2012I: An Over-Temperature Condition has been removed on the dimm [DIMMId] on system [MemoryName].**

  This message is for the use case when an implementation has detected an over-temperature condition for memory that has been removed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Temperature
  SNMP Trap ID: 0
  CIM Prefix: PLAT CIM ID: 0147

  User Action:

  Information only; no action is required.

- **FQXSPMA2025I: BMC LAN recovers back from shared to dedicate.**

  This message is for the use case when an implementation has detected a sensor has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 43
  CIM Prefix: PLAT CIM ID: 0509

  User Action:

Information only; no action is required.

- **FQXSPMA2037I: DIMMs has recovered from an Uncorrectable Error.**

  This message is for the use case when an implementation has detected a that a system has recovered from a bus uncorrectable error.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Memory
  SNMP Trap ID: 41
  CIM Prefix: PLAT CIM ID: 0241

  User Action:

  Information only; no action is required.

- **FQXSPMA2039I: DIMM [DIMMID] is enabled.**

  This message is for the use case when an implementation has detected a sensor has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Memory
  SNMP Trap ID: 43
  CIM Prefix: PLAT CIM ID: 0509

  User Action:

  Information only; no action is required.

- **FQXSPNM4000I: Management Controller [arg1] Network Initialization Complete.**

  This message is for the use case where a management controller network has completed initialization.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - IMM Network event
  SNMP Trap ID: 37
  CIM Prefix: IMM CIM ID: 0001

  User Action:

  Information only; no action is required.

- **FQXSPNM4001I: Ethernet Data Rate modified from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].**

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

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0003

  User Action:

  Information only; no action is required.

- **FQXSPNM4002I: Ethernet Duplex setting modified from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  This message is for the use case where a user modifies the Ethernet port duplex setting.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0004

  User Action:

  Information only; no action is required.

- **FQXSPNM4003I: Ethernet MTU setting modified from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].**

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

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0005

  User Action:

  Information only; no action is required.

- **FQXSPNM4004I: Ethernet locally administered MAC address modified from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].**

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

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0006

  User Action:

  Information only; no action is required.

- **FQXSPNM4005I: Ethernet interface [arg1] by user [arg2] from [arg3] at IP address [arg4].**

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

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0007

  User Action:

  Information only; no action is required.

- **FQXSPNM4006I: Hostname set to [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  This message is for the use case where user modifies the hostname of a management controller.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - IMM Network event
  SNMP Trap ID: 37
  CIM Prefix: IMM CIM ID: 0008

  User Action:

  Information only; no action is required.

- **FQXSPNM4010I: 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.

  Severity: Warning
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - IMM Network event
  SNMP Trap ID: 37
  CIM Prefix: IMM CIM ID: 0013

  User Action:

  Complete the following steps until the problem is solved:

  1. Make sure that the BMC network cable is connected.
  2. Make sure that there is a DHCP server on the network that can assign an IP address to the BMC.
  3. If the problem persists, collect service data log.
  4. Contact Lenovo Support.

- **FQXSPNM4011I: 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.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - IMM Network event
  SNMP Trap ID: 37
  CIM Prefix: IMM CIM ID: 0022

  User Action:

  Information only; no action is required.

- **FQXSPNM4012I: 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.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No

Alert Category: System - IMM Network event
SNMP Trap ID: 37
CIM Prefix: IMM CIM ID: 0023

User Action:

Information only; no action is required.

- **FQXSPNM4013I: 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.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - IMM Network event
  SNMP Trap ID: 37
  CIM Prefix: IMM CIM ID: 0024

  User Action:

  Information only; no action is required.

- **FQXSPNM4014I: LAN: Ethernet[[arg1]] interface is now active.**

  This message is for the use case where a management controller ethernet interface is now active.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - IMM Network event
  SNMP Trap ID: 37
  CIM Prefix: IMM CIM ID: 0025

  User Action:

  Information only; no action is required.

- **FQXSPNM4016I: Domain name set to [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  Domain name set by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0043

  User Action:

  Information only; no action is required.

- **FQXSPNM4017I: Domain Source changed to [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  Domain source changed by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0044

User Action:

Information only; no action is required.

- **FQXSPNM4018I: DDNS setting changed to [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  DDNS setting changed by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0045

  User Action:

  Information only; no action is required.

- **FQXSPNM4019I: DDNS registration successful. The domain name is [arg1].**

  DDNS registration and values.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - IMM Network event
  SNMP Trap ID: 37
  CIM Prefix: IMM CIM ID: 0046

  User Action:

  Information only; no action is required.

- **FQXSPNM4020I: IPv6 enabled by user [arg1] from [arg2] at IP address [arg3].**

  IPv6 protocol is enabled by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0047

  User Action:

  Information only; no action is required.

- **FQXSPNM4021I: IPv6 disabled by user [arg1] from [arg2] at IP address [arg3].**

  IPv6 protocol is disabled by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0048

  User Action:

  Information only; no action is required.

- **FQXSPNM4022I: IPv6 static IP configuration enabled by user [arg1] from [arg2] at IP address [arg3].**

  IPv6 static address assignment method is enabled by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0049

  User Action:

  Information only; no action is required.

- **FQXSPNM4023I: IPv6 DHCP enabled by user [arg1] from [arg2] at IP address [arg3].**

  IPv6 DHCP assignment method is enabled by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0050

  User Action:

  Information only; no action is required.

- **FQXSPNM4024I: IPv6 stateless auto-configuration enabled by user [arg1] from [arg2] at IP address [arg3].**

  IPv6 stateless auto-assignment method is enabled by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0051

  User Action:

  Information only; no action is required.

- **FQXSPNM4025I: IPv6 static IP configuration disabled by user [arg1] from [arg2] at IP address [arg3].**

  IPv6 static assignment method is disabled by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0052

  User Action:

  Information only; no action is required.

- **FQXSPNM4026I: IPv6 DHCP disabled by user [arg1] from [arg2] at IP address [arg3].**

  IPv6 DHCP assignment method is disabled by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0053

  User Action:

  Information only; no action is required.

- **FQXSPNM4027I: IPv6 stateless auto-configuration disabled by user [arg1] from [arg2] at IP address [arg3].**

  IPv6 stateless auto-assignment method is disabled by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0054

  User Action:

  Information only; no action is required.

- **FQXSPNM4028I: ENET[[arg1]] IPv6-LinkLocal:HstName=[arg2], IP@=[arg3] ,Pref=[arg4].**

  IPv6 link local address is active.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - IMM Network event
  SNMP Trap ID: 37
  CIM Prefix: IMM CIM ID: 0055

  User Action:

  Information only; no action is required.

- **FQXSPNM4029I: ENET[[arg1]] IPv6-Static:HstName=[arg2], IP@=[arg3] ,Pref=[arg4], GW@=[arg5].**

  IPv6 static address is active.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - IMM Network event
  SNMP Trap ID: 37
  CIM Prefix: IMM CIM ID: 0056

  User Action:

  Information only; no action is required.

- **FQXSPNM4030I: ENET[[arg1]] DHCPv6-HSTN=[arg2], DN=[arg3], IP@=[arg4], Pref=[arg5], DNS1@=[arg6].**

IPv6 DHCP-assigned address is active.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - IMM Network event
SNMP Trap ID: 37
CIM Prefix: IMM CIM ID: 0057

User Action:

Information only; no action is required.

- **FQXSPNM4031I: IPv6 static address of network interface modified from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  A user modifies the IPv6 static address of a management controller.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0058

  User Action:

  Information only; no action is required.

- **FQXSPNM4034I: SSH port number changed from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  A user has modified the SSH port number.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0062

  User Action:

  Information only; no action is required.

- **FQXSPNM4035I: Web-HTTP port number changed from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  A user has modified the Web HTTP port number.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0063

  User Action:

  Information only; no action is required.

- **FQXSPNM4036I: Web-HTTPS port number changed from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  A user has modified the Web HTTPS port number.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0064

  User Action:

  Information only; no action is required.

- **FQXSPNM4039I: SNMP Agent port number changed from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  A user has modified the SNMP Agent port number.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0067

  User Action:

  Information only; no action is required.

- **FQXSPNM4040I: SNMP Traps port number changed from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  A user has modified the SNMP Traps port number.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0068

  User Action:

  Information only; no action is required.

- **FQXSPNM4041I: Syslog port number for syslog receiver [arg1] is changed from [arg2] to [arg3] by user [arg4] from [arg5] at IP address [arg6].**

  A user has modified the syslog receiver port number.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0069

  User Action:

  Information only; no action is required.

- **FQXSPNM4042I: Remote Presence port number changed from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  A user has modified the Remote Presence port number.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0070

  User Action:

  Information only; no action is required.

- **FQXSPNM4043I: SMTP Server set by user [arg1] to [arg2]:[arg3] from [arg4] at IP address [arg5].**

  A user configured the SMTP server.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0086

  User Action:

  Information only; no action is required.

- **FQXSPNM4045I: DNS servers set by user [arg1]: UseAdditionalServers=[arg2], PreferredDNStype=[arg3], IPv4Server1=[arg4], IPv4Server2=[arg5], IPv4Server3=[arg6], IPv6Server1=[arg7], IPv6Server2=[arg8], IPv6Server3=[arg9] from [arg10] at IP address [arg11].**

  A user configures the DNS servers.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0088

  User Action:

  Information only; no action is required.

- **FQXSPNM4046I: LAN over USB [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  A user configured USB-LAN.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0089

  User Action:

  Information only; no action is required.

- **FQXSPNM4047I: LAN over USB Port Forwarding set by user [arg1]: ExternalPort=[arg2], USB-LAN port=[arg3] from [arg4] at IP address [arg5].**

  A user configured USB-LAN port forwarding.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0090

  User Action:

  Information only; no action is required.

- **FQXSPNM4048I: PXE boot requested by user [arg1] from [arg2] at IP address [arg3].**

  PXE boot requested.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0129

  User Action:

  Information only; no action is required.

- **FQXSPNM4049I: User [arg1] has initiated a TKLM Server Connection Test to check connectivity to server [arg2] from [arg3] at IP address [arg4].**

  A user initiated a TKLM server connection test.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0159

  User Action:

  Information only; no action is required.

- **FQXSPNM4051I: User [arg1] has set the SMTP Server reverse-path to [arg2] from [arg3] at IP address [arg4].**

  A user set SMTP Server reverse-path address.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0163

  User Action:

  Information only; no action is required.

- **FQXSPNM4053I: DNS discovery of Lenovo XClarity Administrator has been [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  DNS discovery of Lenovo XClarity Administrator.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0217

  User Action:

  Information only; no action is required.

- **FQXSPNM4054I: The hostname from DHCP is [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  This message is for getting hostname from DHCP.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - IMM Network event
  SNMP Trap ID: 37
  CIM Prefix: IMM CIM ID: 0244

  User Action:

  Information only; no action is required.

- **FQXSPNM4055I: The hostname from DHCP is invalid.**

  This message is for hostname from DHCP is invalid.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - IMM Network event
  SNMP Trap ID: 37
  CIM Prefix: IMM CIM ID: 0245

  User Action:

  Information only; no action is required.

- **FQXSPNM4056I: The NTP server address [arg1] is invalid.**

  Report NTP server is invalid.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - IMM Network event
  SNMP Trap ID: 37
  CIM Prefix: IMM CIM ID: 0249

  User Action:

  Information only; no action is required.

- **FQXSPNM4057I: Security: IP address: [arg1] had [arg2] login failures, it will be blocked to access for [arg3] minutes.**

This message is for the use case where IP address is blocking.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - IMM Network event
SNMP Trap ID: 37
CIM Prefix: IMM CIM ID: 0250

User Action:

Information only; no action is required.

- **FQXSPNM4058I: IP address of network interface [arg1] is modified from [arg2] to [arg3] by user [arg4] from [arg5] at IP address [arg6].**

  This message is for the use case where user modifies the IP address of a management controller.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - IMM Network event
  SNMP Trap ID: 37
  CIM Prefix: IMM CIM ID: 0286

  User Action:

  Information only; no action is required.

- **FQXSPNM4059I: IP subnet mask of network interface [arg1] is modified from [arg2] to [arg3] by user [arg4] from [arg5] at IP address [arg6].**

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

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0287

  User Action:

  Information only; no action is required.

- **FQXSPNM4060I: IP address of default gateway of network interface [arg1] is modified from [arg2] to [arg3] by user [arg4] from [arg5] at IP address [arg6].**

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

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0288

  User Action:

  Information only; no action is required.

- **FQXSPNM4068I: The USB [arg1] is [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  Enable or disable a certain USB port.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0355

  User Action:

  Information only; no action is required.

- **FQXSPNM4069I: The LLDP service is [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  Enable or disable LLDP service.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0357

  User Action:

  Information only; no action is required.

- **FQXSPNM4070I: Daisy mode is [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  Enable or disable Daisy mode.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0358

  User Action:

  Information only; no action is required.

- **FQXSPOS4000I: OS Watchdog response [arg1] by [arg2] from [arg3] at IP address [arg4].**

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

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0012

  User Action:

  Information only; no action is required.

- **FQXSPOS4001I: Watchdog [arg1] Screen Capture Occurred.**

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

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0028

User Action:

Complete the following steps until the problem is solved:

1. If there was no operating-system error:
   a. Reconfigure the watchdog timer to a higher value.
   b. Make sure that the BMC Ethernet-over-USB interface is enabled.
   c. Reinstall the RNDIS or cdc_ether device driver for the operating system.
   d. Disable the watchdog.
2. If there was an operating-system error, check the integrity of the installed operating system.
3. If the problem persists, collect service data log.
4. Contact Lenovo Support.

- **FQXSPOS4002I: 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.

Severity: Error
Serviceable: No
Automatically notify Support: No
Alert Category: System - other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0029

User Action:

Complete the following steps until the problem is solved:

1. Reconfigure the watchdog timer to a higher value.
2. Make sure that the BMC 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 BMC 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.
6. If the problem persists, collect service data log.
7. Contact Lenovo Support.

- **FQXSPOS4003I: Platform Watchdog Timer expired for [arg1].**

An implementation has detected an OS Loader Watchdog Timer Expired.

Severity: Error
Serviceable: No
Automatically notify Support: No

Alert Category: System - Loader timeout
SNMP Trap ID: 26
CIM Prefix: IMM CIM ID: 0060

User Action:

Complete the following steps until the problem is solved:

1. Reconfigure the watchdog timer to a higher value.
2. Make sure that the BMC 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.
6. If the problem persists, collect service data log.
7. Contact Lenovo Support.

- **FQXSPOS4004I: Operating System status has changed to [arg1].**

  Operating System status change.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0191

  User Action:

  Information only; no action is required.

- **FQXSPOS4005I: Host Power-On password changed by user [arg1] from [arg2] at IP address [arg3].**

  This message is for the use case where host power-on password changed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0231

  User Action:

  Information only; no action is required.

- **FQXSPOS4006I: Host Power-On password cleared by user [arg1] from [arg2] at IP address [arg3].**

  This message is for the use case where host power-on password cleared.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0232

  User Action:

  Information only; no action is required.

- **FQXSPOS4007I: Host Admin password changed by user [arg1] from [arg2] at IP address [arg3].**

  This message is for the use case where host admin password changed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0233

  User Action:

  Information only; no action is required.

- **FQXSPOS4008I: Host Admin password cleared by user [arg1] from [arg2] at IP address [arg3].**

  This message is for the use case where host admin password cleared.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0234

  User Action:

  Information only; no action is required.

- **FQXSPOS4009I: OS Crash Video Captured.**

  This message is for the use case where OS crash video captured.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0235

  User Action:

  Information only; no action is required.

- **FQXSPOS4010I: OS Crash Video Capture Failed.**

  This message is for the use case where OS Crash Video Capture failed.

  Severity: Error
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0236

  User Action:

  Complete the following steps until the problem is solved:

  1. Check if the OS watchdog is enabled.
  2. Check if the crash video recording is enabled.
  3. If the problem persists, collect service data log.

4. Contact Lenovo Support.

- **FQXSPOS4011I: OS failure screen capture with hardware error is [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  OS failure screen capture with hardware error is enabled or disabled by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0280

  User Action:

  Information only; no action is required.

- **FQXSPOS4012I: POST watchdog Screen Capture Occurred.**

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

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0302

  User Action:

  Information only; no action is required.

- **FQXSPPP4000I: Attempting to [arg1] server [arg2] by user [arg3] from [arg4] at IP address [arg5].**

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

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0015

  User Action:

  Information only; no action is required.

- **FQXSPPP4001I: Server Power Off Delay set to [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  A user configured the server power-off delay.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0081

  User Action:

Information only; no action is required.

- **FQXSPPP4002I: Server [arg1] scheduled for [arg2] at [arg3] by user [arg4] from [arg5] at IP address [arg6].**

  A user configured a server power action at a specific time.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0082

  User Action:

  Information only; no action is required.

- **FQXSPPP4003I: Server [arg1] scheduled for every [arg2] at [arg3] by user [arg4] from [arg5] at IP address [arg6].**

  A user configured a recurring server power action.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0083

  User Action:

  Information only; no action is required.

- **FQXSPPP4004I: Server [arg1] [arg2] cleared by user [arg3] from [arg4] at IP address [arg5].**

  A user cleared a server power action.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0084

  User Action:

  Information only; no action is required.

- **FQXSPPP4005I: The power cap value changed from [arg1] watts to [arg2] watts by user [arg3] from [arg4] at IP address [arg5].**

  Power cap values changed by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0113

  User Action:

Information only; no action is required.

- **FQXSPPP4009I: The measured power value exceeded the power cap value.**

  Power exceeded cap.

  Severity: Warning
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Power
  SNMP Trap ID: 164
  CIM Prefix: IMM CIM ID: 0117

  User Action:

  Information only; no action is required.

- **FQXSPPP4011I: Power capping was activated by user [arg1] from [arg2] at IP address [arg3].**

  Power capping activated by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0119

  User Action:

  Information only; no action is required.

- **FQXSPPP4012I: Power capping was deactivated by user [arg1] from [arg2] at IP address [arg3].**

  Power capping deactivated by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0120

  User Action:

  Information only; no action is required.

- **FQXSPPP4020I: The measured power value has returned below the power cap value.**

  Power exceeded cap recovered.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Power
  SNMP Trap ID: 164
  CIM Prefix: IMM CIM ID: 0130

  User Action:

  Information only; no action is required.

- **FQXSPPP4022I: The server was restarted for an unknown reason.**

The server was restarted for an unknown reason.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0166

User Action:

Information only; no action is required.

- **FQXSPPP4023I: The server is restarted by chassis control command.**

  Server is restarted by chassis control command.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0167

  User Action:

  Information only; no action is required.

- **FQXSPPP4024I: The server was reset via push button.**

  The server was reset via the power push button.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0168

  User Action:

  Information only; no action is required.

- **FQXSPPP4025I: The server was powered-up via power push button.**

  The server was power-up via the power push button.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0169

  User Action:

  Information only; no action is required.

- **FQXSPPP4026I: The server was restarted when the watchdog expired.**

  The server was restarted when the watchdog expired.

  Severity: Info
  Serviceable: No

Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0170

User Action:

Information only; no action is required.

- **FQXSPPP4027I: The server was restarted for OEM reason.**

  The server was restarted for an OEM reason.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0171

  User Action:

  Information only; no action is required.

- **FQXSPPP4028I: The server was automatically powered on because the power restore policy is set to always on.**

  The server was automatically powered on because the power restore policy is set to always on.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0172

  User Action:

  Information only; no action is required.

- **FQXSPPP4029I: The server was automatically powered on because the power restore policy is set to restore previous power state.**

  The server was automatically powered on because the power restore policy is set to restore previous power state.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0173

  User Action:

  Information only; no action is required.

- **FQXSPPP4030I: The server was reset via Platform Event Filter.**

  The server was reset via platform event filter.

  Severity: Info
  Serviceable: No

Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0174

User Action:

Information only; no action is required.

- **FQXSPPP4031I: The server was power-cycled via Platform Event Filter.**

  The server was power-cycled via platform event filter.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0175

  User Action:

  Information only; no action is required.

- **FQXSPPP4032I: The server was soft reset.**

  The server made a soft reset.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0176

  User Action:

  Information only; no action is required.

- **FQXSPPP4033I: The server was powered up via Real Time Clock (scheduled power on).**

  The server was powered up via real time clock (scheduled power on).

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0177

  User Action:

  Information only; no action is required.

- **FQXSPPP4034I: The server was powered off for an unknown reason.**

  The server was powered off for an unknown reason.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22

CIM Prefix: IMM CIM ID: 0178

User Action:

Information only; no action is required.

- **FQXSPPP4035I: The server was powered off by chassis control command.**

  The server was powered off by chassis control command.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0179

  User Action:

  Information only; no action is required.

- **FQXSPPP4036I: The server was powered off via push button.**

  The server was powered off via the power push button.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0180

  User Action:

  Information only; no action is required.

- **FQXSPPP4037I: The server was powered off when the watchdog expired.**

  The server was powered off when the watchdog expired.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0181

  User Action:

  Information only; no action is required.

- **FQXSPPP4038I: The server stayed powered off because the power restore policy is set to always off.**

  The server stayed powered off because the power restore policy is set to always off.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0182

User Action:

Information only; no action is required.

- **FQXSPPP4039I: The server stayed powered off because the power restore policy is set to restore previous power state.**

  The server stayed powered off because the power restore policy is set to restore previous power state.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0183

  User Action:

  Information only; no action is required.

- **FQXSPPP4040I: The server was powered off via Platform Event Filter.**

  The server was power-off via platform event filter.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0184

  User Action:

  Information only; no action is required.

- **FQXSPPP4041I: The server was powered off via Real Time Clock (scheduled power off).**

  The server was powered off via real time clock (scheduled power off).

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0185

  User Action:

  Information only; no action is required.

- **FQXSPPP4042I: Management Controller [arg1] reset was initiated due to Power-On-Reset.**

  Management controller reset was initiated due to Power-On-Reset.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0186

  User Action:

Information only; no action is required.

- **FQXSPPP4044I: Management Controller [arg1] reset was initiated by CMM.**

  Management controller reset was initiated by CMM.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0188

  User Action:

  Information only; no action is required.

- **FQXSPPP4047I: Management Controller [arg1] reset was initiated by user [arg2] from [arg3] at IP address [arg4].**

  This message is for the use case where a management controller reset is initiated by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0021

  User Action:

  Information only; no action is required.

- **FQXSPPP4048I: Attempting to AC power cycle server [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  AC power cycle server.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0227

  User Action:

  Information only; no action is required.

- **FQXSPPP4049I: Management Controller [arg1] reset was initiated by Front Panel.**

  Management controller reset was initiated by front panel.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0252

  User Action:

  Information only; no action is required.

- **FQXSPPP4050I: Management Controller [arg1] reset was initiated to activate PFR Firmware.**

  Management controller reset was initiated to activate PFR Firmware.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0253

  User Action:

  Information only; no action is required.

- **FQXSPPP4054I: Unbalanced PSU config is detected, system is using less node PSU capacity.**

  This message is for the use case where user installed unbalanced PSUs.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0316

  User Action:

  Information only; no action is required.

- **FQXSPPR0000I: [BackplaneName] detected as present.**

  This message is for the use case when an implementation has detected a managed element is now present.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0390

  User Action:

  Information only; no action is required.

- **FQXSPPR0003I: Front Panel detected as present.**

  This message is for the use case when an implementation has detected a managed element is now present.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0390

  User Action:

  Information only; no action is required.

- **FQXSPPR0004I: TPM module detected as present.**

This message is for the use case when an implementation has detected a managed element is now present.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: PLAT CIM ID: 0390

User Action:

Information only; no action is required.

- **FQXSPPR2001I: [BackplaneName] detected as absent.**

  This message is for the use case when an implementation has detected a managed element is absent.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0392

  User Action:

  Information only; no action is required.

- **FQXSPPR2003I: Front Panel detected as absent.**

  This message is for the use case when an implementation has detected a managed element is absent.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0392

  User Action:

  Information only; no action is required.

- **FQXSPPR2004I: TPM module detected as absent.**

  This message is for the use case when an implementation has detected a managed element is absent.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0392

  User Action:

  Information only; no action is required.

- **FQXSPPU0001N: An Over-Temperature Condition has been detected on Processor [ProcessorId].**

  This message is for the use case when an implementation has detected an over-temperature condition detected for the processor.

Severity: Error
Serviceable: Yes
Automatically notify Support: No
Alert Category: Critical - Temperature
SNMP Trap ID: 0
CIM Prefix: PLAT CIM ID: 0036

User Action:

Complete the following steps until the problem is solved:

1. Check the XCC event log for any fan or cooling related issues and address them first.
2. Make sure that the airflow at the front and rear of the chassis is not obstructed and that fillers are correctly installed and are in place.
3. Make sure that the room temperature is within operating specifications.
4. Upgrade all system and chassis (if applicable) firmware to the latest level.

   Note: If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before the update.
5. If the problem persists, collect service data log.
6. Contact Lenovo Support.

- **FQXSPPU0002G: Processor [ProcessorId] is operating in a Degraded State.**

  This message is for the use case when an implementation has detected a processor is running in the degraded state.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - CPU
  SNMP Trap ID: 42
  CIM Prefix: PLAT CIM ID: 0038

  User Action:

  Complete the following steps until the problem is solved:

  1. Check the XCC event log for any fan or cooling related issues and address them first.
  2. Make sure that the airflow at the front and rear of the chassis is not obstructed and that fillers are correctly installed and are in place.
  3. Make sure that the room temperature is within operating specifications.
  4. Upgrade all system and chassis (if applicable) firmware to the latest level.

     Note: If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before the update.
  5. If the problem persists, collect service data log.
  6. Contact Lenovo Support.

- **FQXSPPU0007N: CPU voltage mismatch detected on [ProcessorName].**

  This message is for the use case when an implementation has detected that a CPU voltage mismatch with the socket voltage.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No

Alert Category: Critical - CPU
SNMP Trap ID: 40
CIM Prefix: PLAT CIM ID: 0050

User Action:

This is a UEFI detected event. The UEFI(POST) error code for this event can be found in the logged BMC 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.

- **FQXSPPU0009N: Processor [ProcessorId] has a Configuration Mismatch.**

  This message is for the use case when an implementation has detected that a processor configuration mismatch has occurred.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - CPU
  SNMP Trap ID: 40
  CIM Prefix: PLAT CIM ID: 0062

  User Action:

  Complete the following steps until the problem is solved:

  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 processors 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. If the problem persists, collect service data logs.
  6. Contact Lenovo Support.

- **FQXSPPU0010G: Processor [ProcessorId] is operating in a Degraded State due to [ElementSource].**

  This message is for the use case when an implementation has detected a processor is running in the degraded state.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - CPU
  SNMP Trap ID: 42
  CIM Prefix: PLAT CIM ID: 0038

  User Action:

  Complete the following steps until the problem is solved:

  1. Check the XCC event log for any fan or cooling related issues and address them first.
  2. Make sure that the airflow at the front and rear of the chassis is not obstructed and that fillers are correctly installed and are in place.
  3. Make sure that the room temperature is within operating specifications.

4. Upgrade all system and chassis (if applicable) firmware to the latest level.

   Note: If the device is part of a cluster solution, verify that the latest level of code is supported for the cluster solution before the update.
5. If the problem persists, collect service data logs.
6. Contact Lenovo Support.

- **FQXSPPU0015G: CPU feature mismatch is detected.**

  This message is for the use case when an implementation has detected a sensor has asserted.

  Severity: Warning
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - CPU
  SNMP Trap ID: 42
  CIM Prefix: PLAT CIM ID: 0508

  User Action:

  Complete the following steps until the problem is solved:

  1. Check if all CPUs have the same on demand capabilities enabled. If XCC reports the status of the feature in “Pending” state, then reboot A/C cycle the server.
  2. Retrieve the SDSi activation code from Lenovo LKMs portal and reload using XCC GUI.
  3. If the problem persists, collect service data log.
  4. Contact Lenovo Support.

- **FQXSPPU0016N: An Uncorrectable Error has occurred on CPUs.**

  This message is for the use case when an implementation has detected a bus uncorrectable error.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: Yes
  Alert Category: Critical - CPU
  SNMP Trap ID: 40
  CIM Prefix: PLAT CIM ID: 0240

  User Action:

  Complete the following steps until the problem is solved:

  1. Check Lenovo Support site (https://support.lenovo.com/) for an applicable service bulletin or firmware update for the system or adapter that applies to this error.
  2. Upgrade all system firmware and chassis firmware (if applicable) to the latest level.

     Note: If the device is part of a cluster solution, verify that the latest level of code is supported by the cluster solution before the update.
  3. If the problem persists, collect service data log.
  4. Contact Lenovo Support.

- **FQXSPPU0017N: A hard fault has occurred on processor [ProcessorId].**

  This message is for the use case when an implementation has detected that a processor hard fault has occurred.

  Severity: Error
  Serviceable: Yes

Automatically notify Support: No
Alert Category: Critical - CPU
SNMP Trap ID: 40
CIM Prefix: PLAT CIM ID: 0851

User Action:

Complete the following steps until the problem is solved:

1. Perform virtual system reseat or A/C power cycle.
2. If the problem persists, collect service data log.
3. Contact Lenovo Support.

- **FQXSPPU2001I: An Over-Temperature Condition has been removed on Processor [ProcessorId].**

  This message is for the use case when an implementation has detected a over-temperature condition has been removed for the processor.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Temperature
  SNMP Trap ID: 0
  CIM Prefix: PLAT CIM ID: 0037

  User Action:

  Information only; no action is required.

- **FQXSPPU2002I: The Processor [ProcessorId] is no longer operating in a Degraded State.**

  This message is for the use case when an implementation has detected a processor is no longer running in the degraded state.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - CPU
  SNMP Trap ID: 42
  CIM Prefix: PLAT CIM ID: 0039

  User Action:

  Information only; no action is required.

- **FQXSPPU2007I: The System [ComputerSystemName] has detected a POST Error deassertion - CPU voltage mismatch.**

  This message is for the use case when an implementation has detected that POST error has deasserted.

  Severity: Info
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - CPU
  SNMP Trap ID: 40
  CIM Prefix: PLAT CIM ID: 0185

  User Action:

  Information only; no action is required.

- **FQXSPPU2009I: Processor [ProcessorId] has Recovered from a Configuration Mismatch.**

This message is for the use case when an implementation has recovered from a processor configuration mismatch.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: Critical - CPU
SNMP Trap ID: 40
CIM Prefix: PLAT CIM ID: 0063

User Action:

Information only; no action is required.

- **FQXSPPU2015I: CPU feature mismatch is recovered.**

  This message is for the use case when an implementation has detected a sensor has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0509

  User Action:

  Information only; no action is required.

- **FQXSPPU2016I: CPUs has recovered from an Uncorrectable Error.**

  This message is for the use case when an implementation has detected a that a system has recovered from a bus uncorrectable error.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - CPU
  SNMP Trap ID: 40
  CIM Prefix: PLAT CIM ID: 0241

  User Action:

  Information only; no action is required.

- **FQXSPPU2017I: Processor [ProcessorId] has recovered from a hard fault.**

  This message is for the use case when an implementation has recovered from a hard fault.

  Severity: Info
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - CPU
  SNMP Trap ID: 40
  CIM Prefix: PLAT CIM ID: 0852

  User Action:

  Information only; no action is required.

- **FQXSPPW0001I: Power supply [PowerSupplyId] has been added.**

This message is for the use case when an implementation has detected that a power supply unit has been added.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: PLAT CIM ID: 0084

User Action:

Information only; no action is required.

- **FQXSPPW0002I: Power supply [PowerSupplyId] in the enclosure/chassis (MTM-S/N: [MachineSerialNumber]) has been added.**

  This message is for the use case when an implementation has detected a power supply unit in the enclosure has been added.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0084

  User Action:

  Information only; no action is required.

- **FQXSPPW0002L: Power supply [PowerSupplyId] has Failed.**

  This message is for the use case when an implementation has detected that a power supply unit has failed.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Power
  SNMP Trap ID: 4
  CIM Prefix: PLAT CIM ID: 0086

  User Action:

  Complete the following steps until the problem is solved:

  1. For CRPS Premium:
     a. Check the LEDs on the PSU. If IN LED is green and OUT LED is yellow, remove and re-install power supply unit.
     b. If the problem persists, collect service data log manually and contact Lenovo Support.
  2. For CRPS:
     a. Check the LED on the PSU. If the LED is yellow, remove and re-install power supply unit.
     b. If the problem persists, collect service data log manually and contact Lenovo Support.

- **FQXSPPW0003G: Failure predicted on power supply [PowerSupplyId].**

  This message is for the use case when an implementation has detected that a power supply unit failure is predicted.

Severity: Warning
Serviceable: Yes
Automatically notify Support: No
Alert Category: Warning - Power
SNMP Trap ID: 164
CIM Prefix: PLAT CIM ID: 0088

User Action:

Complete the following steps until the problem is solved:

1. Reseat the power supply.
2. If the problem persists, collect service data log.
3. Contact Lenovo Support.

- **FQXSPPW0003L: Power supply [PowerSupplyId] in the enclosure/chassis (MTM-SN: [MachineSerialNumber])has failed.**

  This message is for the use case when an implementation has detected that a power supply unit has failed.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: Yes
  Alert Category: Critical - Power
  SNMP Trap ID: 4
  CIM Prefix: PLAT CIM ID: 0086

  User Action:

  Complete the following steps until the problem is solved:

  1. Check the LEDs on the PSU:
     a. If AC LED is not lit, check power cord and input voltage.
     b. If DC LED is not lit, remove and re-install power supply.
  2. If the problem persists, collect service data log.
  3. Contact Lenovo Support.

- **FQXSPPW0004I: The input to power supply [PowerSupplyId] has been lost or fallen out of range.**

  This message is for the use case when an implementation has detected that a power supply unit input is lost or out of range.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0096

  User Action:

  Information only; no action is required.

- **FQXSPPW0005I: Power supply [PowerSupplyId] is operating in an Input State that is out of range.**

  This message is for the use case when an implementation has detected that a power supply unit has input out of range.

  Severity: Info

Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: PLAT CIM ID: 0098

User Action:

Information only; no action is required.

- **FQXSPPW0006I: Power supply [PowerSupplyId] has lost input.**

  This message is for the use case when an implementation has detected that a power supply unit has input that has been lost.

  Severity: Warning
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Power
  SNMP Trap ID: 164
  CIM Prefix: PLAT CIM ID: 0100

  User Action:

  Complete the following steps until the problem is solved:

  1. For CRPS Premium:
     a. Check the LEDs on the PSU. If IN and OUT LED are not lit, check power cord and input voltage.
     b. If the problem persists, collect service data log.
     c. Contact Lenovo Support.
  2. For CRPS:
     a. Check the LED on the PSU. If one PSU LED is green and the other PSU LED is yellow, check power cord and input voltage.
     b. If the problem persists, collect service data log.
     c. Contact Lenovo Support.

- **FQXSPPW0007I: Power supply [PowerSupplyId] in the enclosure/chassis (MTM-SN: [MachineSerialNumber])has lost input.**

  This message is for the use case when an implementation has detected that a power supply unit has input that has been lost.

  Severity: Warning
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Power
  SNMP Trap ID: 164
  CIM Prefix: PLAT CIM ID: 0100

  User Action:

  Complete the following steps until the problem is solved:

  1. Check if the storage enclosure has lost input power.
  2. If the problem persists, collect service data log.
  3. Contact Lenovo Support.

- **FQXSPPW0007L: Power supply [PowerSupplyId] has a Configuration Mismatch.**

This message is for the use case when an implementation has detected that a power supply unit with a configuration error.

Severity: Error
Serviceable: Yes
Automatically notify Support: No
Alert Category: Critical - Power
SNMP Trap ID: 4
CIM Prefix: PLAT CIM ID: 0104

User Action:

Complete the following steps until the problem is solved:

1. Check if the PSUs are the same power rating (wattage).
2. Check if the PSUs are the same efficiency level.
3. Check if the PSUs are supported by the platform.
4. If the problem persists, collect service data log.
5. Contact Lenovo Support.

- **FQXSPPW0008I: Host power has been turned off.**

  This message is for the use case when an implementation has detected that a power supply unit has been disabled.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Power Off
  SNMP Trap ID: 23
  CIM Prefix: PLAT CIM ID: 0106

  User Action:

  Information only; no action is required.

- **FQXSPPW0009I: Host power has been Power Cycled.**

  This message is for the use case when an implementation has detected that a power supply unit has been power cycled.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0108

  User Action:

  Information only; no action is required.

- **FQXSPPW0011I: Host power has lost power.**

  This message is for the use case when an implementation has detected that a power supply unit has lost power.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other

SNMP Trap ID: 22
CIM Prefix: PLAT CIM ID: 0112

User Action:

Information only; no action is required.

- **FQXSPPW0031J: CMOS battery voltage going low (lower non-critical) has asserted.**

  This message is for the use case when an implementation has detected a lower non-critical sensor going low has asserted.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Voltage
  SNMP Trap ID: 13
  CIM Prefix: PLAT CIM ID: 0476

  User Action:

  Complete the following steps until the problem is solved:

  1. Remove the CMOS battery for 20 seconds and then install it back.
  2. Replace the system CMOS battery.
  3. If the problem persists, collect service data log.
  4. Contact Lenovo Support.
  5. Note: RTC / UEFI settings may be cleared if the CMOS battery is removed.

- **FQXSPPW0035M: [SysBrdVol] going low (lower critical) has asserted.**

  This message is for the use case when an implementation has detected a lower critical sensor going low has asserted.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: Yes
  Alert Category: Critical - Voltage
  SNMP Trap ID: 1
  CIM Prefix: PLAT CIM ID: 0480

  User Action:

  Complete the following steps until the problem is solved:

  1. Perform virtual system reseat or A/C power cycle.
  2. If the problem persists, collect service data log.
  3. Contact Lenovo Support.

- **FQXSPPW0047M: [SysBrdVol] going high (upper critical) has asserted.**

  This message is for the use case when an implementation has detected an upper critical sensor going high has asserted.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: Yes
  Alert Category: Critical - Voltage
  SNMP Trap ID: 1
  CIM Prefix: PLAT CIM ID: 0494

User Action:

Complete the following steps until the problem is solved:

1. Perform virtual system reseat or A/C power cycle.
2. If the problem persists, collect service data log.
3. Contact Lenovo Support.

- **FQXSPPW0054I: PSU Mismatch has transitioned to normal state.**

  This message is for the use case when an implementation has detected that a sensor transitioned to the normal state.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Power
  SNMP Trap ID: 164
  CIM Prefix: PLAT CIM ID: 0518

  User Action:

  Information only; no action is required.

- **FQXSPPW0055I: SysBrd voltage fault has transitioned to normal state.**

  This message is for the use case when an implementation has detected that a sensor transitioned to the normal state.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Voltage
  SNMP Trap ID: 13
  CIM Prefix: PLAT CIM ID: 0518

  User Action:

  Information only; no action is required.

- **FQXSPPW0057J: PSU [SensorName] prediction fault failure has transitioned from normal to non-critical state.**

  This message is for the use case when an implementation has detected that a sensor transitioned to non-critical from normal.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Power
  SNMP Trap ID: 164
  CIM Prefix: PLAT CIM ID: 0520

  User Action:

  Complete the following steps until the problem is solved:

  1. For CRPS Premium:
     a. Check the PSU LEDs. If IN LED is blinking and OUT LED is green, check the power cord and input voltage.
     b. If the problem persists, collect service data log.

c. Contact Lenovo Support.

2. For CRPS:
   a. Check the LED on the PSU. If the LED is blinking yellow, check power cord and input voltage.
   b. If the problem persists, collect service data logs.
   c. Contact Lenovo Support.

- **FQXSPPW0061M: PSU [SensorName] failure has transitioned to critical from a less severe state.**

  This message is for the use case when an implementation has detected that a sensor transitioned to critical from less severe.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Power
  SNMP Trap ID: 4
  CIM Prefix: PLAT CIM ID: 0522

  User Action:

  Complete the following steps until the problem is solved:

  1. For CRPS Premium:
     a. Check the LEDs on the PSU. If IN LED is green and OUT LED is yellow, remove and re-install power supply unit.
     b. If the problem persists, collect service data log.
     c. Contact Lenovo Support.
  2. For CRPS:
     a. Check the LED on the PSU. If the LED is yellow, remove and re-install power supply unit.
     b. If the problem persists, collect service data log.
     c. Contact Lenovo Support.

- **FQXSPPW0062M: PSU mismatch has transitioned to critical from a less severe state.**

  This message is for the use case when an implementation has detected that a sensor transitioned to critical from less severe.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Power
  SNMP Trap ID: 4
  CIM Prefix: PLAT CIM ID: 0522

  User Action:

  Complete the following steps until the problem is solved:

  1. Check if the PSUs are the same power rating (wattage).
  2. Check if the PSUs are the same efficiency level.
  3. Check if the PSUs are supported by the platform.
  4. If the problem persists, collect service data log.
  5. Contact Lenovo Support.

- **FQXSPPW0063M: SysBrd voltage fault has transitioned to critical from a less severe state.**

This message is for the use case when an implementation has detected that a sensor transitioned to critical from less severe.

Severity: Error
Serviceable: Yes
Automatically notify Support: Yes
Alert Category: Critical - Voltage
SNMP Trap ID: 1
CIM Prefix: PLAT CIM ID: 0522

User Action:

Complete the following steps until the problem is solved:

1. Perform virtual system reseat or A/C power cycle.
2. If the error persists, remove A/C power and any recently installed components.
3. If the system successfully powers on, complete the following steps:
   a. Check the Server Proven website (http://www.lenovo.com/us/en/serverproven/index.shtml) to make sure that recently installed components are compatible with the system.
   b. Inspect the previously installed components for physical damage and fix it.
   c. If the system does not successfully power on or if this is not the first occurrence of this problem, go to step 4.
4. If the problem persists, collect service data log.
5. Contact Lenovo Support.

- **FQXSPPW0091I: Redundancy Power Resource has been restored.**

This message is for the use case when an implementation has detected redundancy was restored.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: Critical - Redundant Power Supply
SNMP Trap ID: 9
CIM Prefix: PLAT CIM ID: 0561

User Action:

Information only; no action is required.

- **FQXSPPW0101J: Redundancy Degraded for Power Resource has asserted.**

This message is for the use case when redundancy degraded has asserted.

Severity: Warning
Serviceable: Yes
Automatically notify Support: No
Alert Category: Warning - Redundant Power Supply
SNMP Trap ID: 10
CIM Prefix: PLAT CIM ID: 0804

User Action:

Complete the following steps until the problem is solved:

1. Check if one of the power supplies is missing, failed, or not installed properly. If so, reinstall it.
2. Check the maximum power supply rate and power capping policy. If any power supply unit does not meet the requirements, change the power supply unit or modify the power capping mechanism.

3. Upgrade all system firmware and chassis firmware (if applicable) to the latest level.

   Note: If the device is part of a cluster solution, verify that the latest level of code is supported by the cluster solution before the update.
4. If the problem persists, collect service data log.
5. Contact Lenovo Support.

- **FQXSPPW0104J: Non-redundant:Sufficient Resources from Redundancy Degraded or Fully Redundant for Power Resource has asserted.**

  This message is for the use case when a redundancy set has transitioned from Redundancy Degraded or Fully Redundant to Non-redundant:Sufficient.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Redundant Power Supply
  SNMP Trap ID: 10
  CIM Prefix: PLAT CIM ID: 0806

  User Action:

  Complete the following steps until the problem is solved:

  1. For CRPS Premium:
     a. Check the PSU LEDs:
     b. If IN and OUT LED are not lit, check the power cord and input voltage.
     c. If IN LED is green and DC LED is yellow or not lit, remove and then reinstall the power supply unit.
     d. If the problem persists, collect service data log.
     e. Contact Lenovo Support.
  2. For CRPS:
     a. Check the LED on the PSU:
     b. If PSU LED is yellow, check power cord and input voltage.
     c. If PSU LED is still yellow, remove and re-install power supply unit.
     d. If the problem persists, collect service data log.
     e. Contact Lenovo Support.

- **FQXSPPW0110M: Non-redundant:Insufficient Resources for Power Resource has asserted.**

  This message is for the use case when a redundancy set has transitioned to Non-redundant: Insufficient Resources.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Redundant Power Supply
  SNMP Trap ID: 9
  CIM Prefix: PLAT CIM ID: 0810

  User Action:

  Complete the following steps until the problem is solved:

  1. Check if one of the power supplies is missing, failed, or not installed properly. If so, reinstall it.

2. Check the maximum power supply rate and power capping policy. If any power supply unit does not meet the requirements, change the power supply unit or modify the power capping mechanism.
3. Upgrade all system firmware and chassis firmware (if applicable) to the latest level.

   Note: If the device is part of a cluster solution, verify that the latest level of code is supported by the cluster solution before the update.
4. If the problem persists, collect service data log.
5. Contact Lenovo Support.

- **FQXSPPW0123M: PSU [SensorName] input failure has transitioned to critical from a less severe state.**

  This message is for the use case when an implementation has detected that a sensor transitioned to critical from less severe.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Power
  SNMP Trap ID: 4
  CIM Prefix: PLAT CIM ID: 0522

  User Action:

  Complete the following steps until the problem is solved:

  1. For CRPS Premium:
     a. Check the LEDs on the PSU. If IN and OUT LED are not lit, check power cord and input voltage.
     b. If the problem persists, collect service data log.
     c. Contact Lenovo Support.
  2. For CRPS:
     a. Check the LED on the PSU. If one PSU LED is green and the other PSU LED is yellow, check power cord and input voltage.
     b. If the problem persists, collect service data log.
     c. Contact Lenovo Support.

- **FQXSPPW0129I: PSU [SensorName] failure has transitioned to normal state.**

  This message is for the use case when an implementation has detected that a sensor transitioned to the normal state.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Power
  SNMP Trap ID: 164
  CIM Prefix: PLAT CIM ID: 0518

  User Action:

  Information only; no action is required.

- **FQXSPPW0129N: CPU [ProcessorId] [VRName] has transitioned to non-recoverable.**

  This message is for the use case when an implementation has detected that a processor non-recoverable fault has occurred.

Severity: Error
Serviceable: Yes
Automatically notify Support: No
Alert Category: Critical - Voltage
SNMP Trap ID: 1
CIM Prefix: PLAT CIM ID: 0853

User Action:

Complete the following steps until the problem is solved:

1. Perform virtual system reseat or A/C power cycle.
2. If the error persists, remove A/C power and any recently installed components.
3. If the system successfully powers on, complete the following steps:
   a. Check the ServerProven website (https://serverproven.lenovo.com/) to make sure that recently installed components are compatible with the system.
   b. Inspect the previously installed components for physical damage and fix it.
   c. If the system does not successfully power on or if this is not the first occurrence of this problem, go to step 4.
4. If the problem persists, collect service data log.
5. Contact Lenovo Support.

- **FQXSPPW0130I: PSU [SensorName] prediction fault failure has transitioned to normal state.**

  This message is for the use case when an implementation has detected that a sensor transitioned to the normal state.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Power
  SNMP Trap ID: 164
  CIM Prefix: PLAT CIM ID: 0518

  User Action:

  Information only; no action is required.

- **FQXSPPW0131I: PSU [SensorName] input failure has transitioned to normal state.**

  This message is for the use case when an implementation has detected that a sensor transitioned to the normal state.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Power
  SNMP Trap ID: 164
  CIM Prefix: PLAT CIM ID: 0518

  User Action:

  Information only; no action is required.

- **FQXSPPW0131N: Peripheral device [DeviceName] powergood has transitioned to non-recoverable.**

  This message is for the use case when an implementation has detected that a peripheral device non-recoverable fault has occurred.

Severity: Error
Serviceable: Yes
Automatically notify Support: No
Alert Category: Critical - Voltage
SNMP Trap ID: 1
CIM Prefix: PLAT CIM ID: 0855

User Action:

Complete the following steps until the problem is solved:

1. Perform virtual system reseat or A/C power cycle.
2. If the error persists, remove A/C power and any recently installed components.
3. If the system successfully powers on, complete the following steps:
   a. Check the ServerProven website (https://serverproven.lenovo.com/) to make sure that recently installed components are compatible with the system.
   b. Inspect the previously installed components for physical damage and fix it.
   c. If the system does not successfully power on or if this is not the first occurrence of this problem, go to step 4.
4. If the system has stand-by power, collect service data logs.
5. Contact Lenovo Support.

- **FQXSPPW0132N: Fan [FanGroup] powergood has transitioned to non-recoverable.**

This message is for the use case when an implementation has detected a fan non-recoverable fault has occurred.

Severity: Error
Serviceable: Yes
Automatically notify Support: No
Alert Category: Critical - Voltage
SNMP Trap ID: 1
CIM Prefix: PLAT CIM ID: 0856

User Action:

Complete the following steps until the problem is solved:

1. Perform virtual system reseat or A/C power cycle.
2. If the error persists, remove A/C power and any recently installed components.
3. If the system successfully powers on, complete the following steps:
   a. Check the ServerProven website (https://serverproven.lenovo.com/) to make sure that recently installed components are compatible with the system.
   b. Inspect the previously installed components for physical damage and fix it.
   c. If the system does not successfully power on or if this is not the first occurrence of this problem, go to step 4.
4. If the problem persists, collect service data log.
5. Contact Lenovo Support.

- **FQXSPPW0133N: MB AUX powergood has transitioned to non-recoverable.**

This message is for the use case when an implementation has detected a MB AUX non-recoverable fault has occurred.

Severity: Error

Serviceable: Yes
Automatically notify Support: No
Alert Category: Critical - Voltage
SNMP Trap ID: 1
CIM Prefix: PLAT CIM ID: 0857

User Action:

Complete the following steps until the problem is solved::

1. Perform a virtual system reseat or A/C power cycle.
2. If the error persists, remove A/C power and any recently installed components.
3. If the system successfully powers on, complete the following steps:
   a. Check the ServerProven website (https://serverproven.lenovo.com/) to make sure that recently installed components are compatible with the system.
   b. Inspect the previously installed components for physical damage and fix it.
   c. If the system does not successfully power on or if this is not the first occurrence of this problem, go to step 4.
4. If the problem persists, collect service data log.
5. Contact Lenovo Support.

- **FQXSPPW0134M: CMOS battery voltage going low (lower critical) has asserted.**

  This message is for the use case when an implementation has detected a lower critical sensor going low has asserted.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Voltage
  SNMP Trap ID: 1
  CIM Prefix: PLAT CIM ID: 0480

  User Action:

  Complete the following steps until the problem is solved:

  1. Open the battery clip and carefully take the CMOS battery out of the socket. Wait for 20 seconds, and install this battery back to the socket.
  2. Replace the system CMOS battery with a new one that meets Lenovo's specifications.
  3. If the problem persists, collect service data logs.
  4. Contact Lenovo Support.
  5. Note: The RTC / UEFI settings may be cleared if the CMOS battery is removed.

- **FQXSPPW0135J: Invalid redundancy config, current PSU config doesn't support Non-redundant mode.**

  This message is for the use case when redundancy failed has asserted

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Redundant Power Supply
  SNMP Trap ID: 10
  CIM Prefix: PLAT CIM ID: 0901

  User Action:

Complete the following steps until the problem is solved:

1. Check if the PSUs are installed correctly.
2. Check if the PSUs are supported by the platform.
3. If the problem persists, upgrade XCC, FPGA, and UEFI to the latest versions.
4. If the problem persists, collect the service data logs.
5. Contact Lenovo Support.
6. Note: This event is reported if only one CRPS PSU is installed on the system because CRPS PSU only supports the redundant mode.

- **FQXSPPW2001I: Power supply [PowerSupplyId] has been removed.**

  This message is for the use case when an implementation has detected that a power supply unit has been removed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0085

  User Action:

  Information only; no action is required.

- **FQXSPPW2002I: Power supply [PowerSupplyId] has returned to OK status.**

  This message is for the use case when an implementation has detected that a power supply unit returns to normal operational status.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Power
  SNMP Trap ID: 4
  CIM Prefix: PLAT CIM ID: 0087

  User Action:

  Information only; no action is required.

- **FQXSPPW2003I: Failure no longer predicted on power supply [PowerSupplyId].**

  This message is for the use case when an implementation has detected that a power supply unit failure is no longer predicted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Power
  SNMP Trap ID: 164
  CIM Prefix: PLAT CIM ID: 0089

  User Action:

  Information only; no action is required.

- **FQXSPPW2004I: Power supply [PowerSupplyId] has returned to a Normal Input State.**

This message is for the use case when an implementation has detected that a power supply unit that has input that has returned to normal.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: PLAT CIM ID: 0099

User Action:

Information only; no action is required.

- **FQXSPPW2005I: Power supply [PowerSupplyId] has returned to a Normal Input State.**

  This message is for the use case when an implementation has detected that a power supply unit that has input that has returned to normal.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0099

  User Action:

  Information only; no action is required.

- **FQXSPPW2006I: Power supply [PowerSupplyId] has returned to a Normal Input State.**

  This message is for the use case when an implementation has detected that a power supply unit that has input that has returned to normal.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0099

  User Action:

  Information only; no action is required.

- **FQXSPPW2007I: Power supply [PowerSupplyId] Configuration is OK.**

  This message is for the use case when an implementation when a power supply unit configuration is OK.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Power
  SNMP Trap ID: 4
  CIM Prefix: PLAT CIM ID: 0105

  User Action:

  Information only; no action is required.

- **FQXSPPW2008I: Host power has been turned on.**

This message is for the use case when an implementation has detected that a power supply unit has been enabled.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - Power On
SNMP Trap ID: 24
CIM Prefix: PLAT CIM ID: 0107

User Action:

Information only; no action is required.

- **FQXSPPW2009I: Power supply [PowerSupplyId] in the enclosure/chassis (MTM-S/N: [MachineSerialNumber]) has been removed.**

  This message is for the use case when an implementation has detected that a power supply unit has been removed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0085

  User Action:

  Information only; no action is required.

- **FQXSPPW2011I: Host power was restored.**

  This message is for the use case when an implementation has detected a power was restore to the Power Unit.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0113

  User Action:

  Information only; no action is required.

- **FQXSPPW2015I: Power supply [PowerSupplyId] in the enclosure/chassis (MTM-SN: [MachineSerialNumber])has returned to OK status.**

  This message is for the use case when an implementation has detected that a power supply unit returns to normal operational status.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Power
  SNMP Trap ID: 4
  CIM Prefix: PLAT CIM ID: 0087

  User Action:

Information only; no action is required.

- **FQXSPPW2017I: Power supply [PowerSupplyId] in the enclosure/chassis (MTM-SN: [MachineSerialNumber])has returned to a normal input state.**

  This message is for the use case when an implementation has detected that a power supply unit that has input that has returned to normal.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0099

  User Action:

  Information only; no action is required.

- **FQXSPPW2031I: CMOS battery voltage going low (lower non-critical) has deasserted.**

  This message is for the use case when an implementation has detected a lower non-critical sensor going low has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Voltage
  SNMP Trap ID: 13
  CIM Prefix: PLAT CIM ID: 0477

  User Action:

  Information only; no action is required.

- **FQXSPPW2035I: [SysBrdVol] going low (lower critical) has deasserted.**

  This message is for the use case when an implementation has detected a lower critical sensor going low has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Voltage
  SNMP Trap ID: 1
  CIM Prefix: PLAT CIM ID: 0481

  User Action:

  Information only; no action is required.

- **FQXSPPW2047I: [SysBrdVol] going high (upper critical) has deasserted.**

  This message is for the use case when an implementation has detected an upper critical sensor going high has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Voltage
  SNMP Trap ID: 1
  CIM Prefix: PLAT CIM ID: 0495

User Action:

Information only; no action is required.

- **FQXSPPW2057I: PSU [SensorName] prediction fault failure has deasserted the transition from normal to non-critical state.**

  This message is for the use case when an implementation has detected that a sensor has deasserted a transition to non-critical from normal.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Power
  SNMP Trap ID: 164
  CIM Prefix: PLAT CIM ID: 0521

  User Action:

  Information only; no action is required.

- **FQXSPPW2061I: PSU [SensorName] failure has transitioned to a less severe state from critical.**

  This message is for the use case when an implementation has detected that a sensor transitioned to less severe from critical.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Power
  SNMP Trap ID: 4
  CIM Prefix: PLAT CIM ID: 0523

  User Action:

  Information only; no action is required.

- **FQXSPPW2062I: PSU Mismatch has transitioned to a less severe state from critical.**

  This message is for the use case when an implementation has detected that a sensor transitioned to less severe from critical.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Power
  SNMP Trap ID: 4
  CIM Prefix: PLAT CIM ID: 0523

  User Action:

  Information only; no action is required.

- **FQXSPPW2063I: SysBrd voltage fault has transitioned to a less severe state from critical.**

  This message is for the use case when an implementation has detected that a sensor transitioned to less severe from critical.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Voltage

SNMP Trap ID: 1
CIM Prefix: PLAT CIM ID: 0523

User Action:

Information only; no action is required.

- **FQXSPPW2101I: Redundancy Degraded for Power Resource has deasserted.**

  This message is for the use case when redundancy degraded has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Redundant Power Supply
  SNMP Trap ID: 10
  CIM Prefix: PLAT CIM ID: 0805

  User Action:

  Information only; no action is required.

- **FQXSPPW2104I: Non-redundant:Sufficient Resources from Redundancy Degraded or Fully Redundant for Power Resource has deasserted.**

  This message is for the use case when a redundancy set has transitioned from Non-redundant:Sufficient Resources.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Redundant Power Supply
  SNMP Trap ID: 10
  CIM Prefix: PLAT CIM ID: 0807

  User Action:

  Information only; no action is required.

- **FQXSPPW2110I: Non-redundant:Insufficient Resources for Power Resource has deasserted.**

  This message is for the use case when a redundancy set has transitioned from Non-redundant: Insufficient Resources.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Redundant Power Supply
  SNMP Trap ID: 9
  CIM Prefix: PLAT CIM ID: 0811

  User Action:

  Information only; no action is required.

- **FQXSPPW2123I: PSU [SensorName] input failure has transitioned to a less severe state from critical.**

  This message is for the use case when an implementation has detected that a sensor transitioned to less severe from critical.

  Severity: Info
  Serviceable: No

Automatically notify Support: No
Alert Category: Critical - Power
SNMP Trap ID: 4
CIM Prefix: PLAT CIM ID: 0523

User Action:

Information only; no action is required.

- **FQXSPPW2134I: CMOS battery voltage going low (lower critical) has deasserted.**

  This message is for the use case when an implementation has detected a lower critical sensor going low has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Voltage
  SNMP Trap ID: 1
  CIM Prefix: PLAT CIM ID: 0481

  User Action:

  Information only; no action is required.

- **FQXSPPW2135I: Recovered from invalid PSU redundancy config.**

  This message is for the use case when redundancy failed has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Redundant Power Supply
  SNMP Trap ID: 10
  CIM Prefix: PLAT CIM ID: 0902

  User Action:

  Information only; no action is required.

- **FQXSPSD0000I: The [DriveName] has been added.**

  This message is for the use case when an implementation has detected that a drive has been added.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Drive Hotplug
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0162

  User Action:

  Information only; no action is required.

- **FQXSPSD0001L: The [DriveName] has a fault.**

  This message is for the use case when an implementation has detected that a drive was disabled due to a fault.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: Yes

Alert Category: Critical - Hard Disk drive
SNMP Trap ID: 5
CIM Prefix: PLAT CIM ID: 0164

User Action:

Complete the following steps until the problem is solved:

1. Reboot the system and confirm that the drive is still in failed state.
2. If the problem persists, collect service data log.
3. Contact Lenovo Support.

- **FQXSPSD0002G: Failure Predicted on [DriveName].**

  This message is for the use case when an implementation has detected an array failure is predicted.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: Yes
  Alert Category: System - Predicted Failure
  SNMP Trap ID: 27
  CIM Prefix: PLAT CIM ID: 0168

  User Action:

  Complete the following steps until the problem is solved:

  1. Reseat the drive.
  2. If the problem persists, collect service data log.
  3. Contact Lenovo Support.

- **FQXSPSD0002L: Drive [DriveLocation] in the enclosure/chassis(MTM-SN: [MachineSerialNumber]) has a fault.**

  This message is for the use case when an implementation has detected that a drive was disabled due to a fault.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: Yes
  Alert Category: Critical - Hard Disk drive
  SNMP Trap ID: 5
  CIM Prefix: PLAT CIM ID: 0164

  User Action:

  Complete the following steps until the problem is solved:

  1. Check Lenovo Support (http://support.lenovo.com/) for service bulletins and Tech Tips and firmware update related to your drive.
  2. Look for any other RAID-related errors.
  3. If the problem persists, collect service data log.
  4. Contact Lenovo Support.

- **FQXSPSD0003G: Failure Predicted on drive [DriveLocation] in the enclosure/chassis (MTM-SN: [MachineSerialNumber]).**

  This message is for the use case when an implementation has detected an array failure is predicted.

  Severity: Warning

Serviceable: Yes
Automatically notify Support: Yes
Alert Category: System - Predicted Failure
SNMP Trap ID: 27
CIM Prefix: PLAT CIM ID: 0168

User Action:

Complete the following steps until the problem is solved:

1. Reseat the drive.
2. If the problem persists, collect service data log.
3. Contact Lenovo Support.

- **FQXSPSD0003I: Hot Spare enabled with drive [DriveLocation].**

  This message is for the use case when an implementation has detected a Hot Spare has been enabled.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0170

  User Action:

  Information only; no action is required.

- **FQXSPSD0005I: Hot Spare enabled for drive [DriveLocation] in the enclosure/chassis (MTM-SN: [MachineSerialNumber]).**

  This message is for the use case when an implementation has detected a Hot Spare has been enabled.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0170

  User Action:

  Information only; no action is required.

- **FQXSPSD0007I: The [DriveName] is rebuilding.**

  This message is for the use case when an implementation has detected that an array rebuild is in progress.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0178

  User Action:

  Information only; no action is required.

- **FQXSPSD0008I: Array rebuild in progress on drive [DriveLocation] in the enclosure/chassis (MTM-S/N: [MachineSerialNumber]).**

  This message is for the use case when an implementation has detected that an array rebuild is in progress.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0178

  User Action:

  Information only; no action is required.

- **FQXSPSD2000I: The [DriveName] has been removed from unit [PhysicalPackageName].**

  This message is for the use case when an implementation has detected that a drive has been removed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Drive Hotplug
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0163

  User Action:

  Complete the following steps until the problem is solved:

  1. If the drive was intentionally removed, make sure that there is a filler in the drive bay.
  2. Make sure that the drive is correctly seated.
  3. If the problem persists, collect service data log.
  4. Contact Lenovo Support.

- **FQXSPSD2001I: The [DriveName] has recovered from a fault.**

  This message is for the use case when an implementation has detected that a drive was enabled.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Hard Disk drive
  SNMP Trap ID: 5
  CIM Prefix: PLAT CIM ID: 0167

  User Action:

  Information only; no action is required.

- **FQXSPSD2002I: Failure no longer Predicted on [DriveName].**

  This message is for the use case when an implementation has detected an array failure is no longer predicted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Predicted Failure

SNMP Trap ID: 27
CIM Prefix: PLAT CIM ID: 0169

User Action:

Information only; no action is required.

- **FQXSPSD2003I: Hot Spare disabled with drive [DriveLocation].**

  This message is for the use case when an implementation has detected a Hot Spare has been disabled.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0171

  User Action:

  Information only; no action is required.

- **FQXSPSD2007I: Rebuild completed on [DriveName].**

  This message is for the use case when an implementation has detected that an array rebuild has completed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0179

  User Action:

  Information only; no action is required.

- **FQXSPSD2008I: Drive [DriveLocation] in the enclosure/chassis(MTM-SN: [MachineSerialNumber]) has recovered from a fault.**

  This message is for the use case when an implementation has detected that a drive was enabled.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Hard Disk drive
  SNMP Trap ID: 5
  CIM Prefix: PLAT CIM ID: 0167

  User Action:

  Information only; no action is required.

- **FQXSPSD2011I: Failure no longer Predicted on drive [DriveLocation] in the enclosure/chassis (MTM-S/N: [MachineSerialNumber]).**

  This message is for the use case when an implementation has detected an array failure is no longer predicted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No

Alert Category: System - Predicted Failure
SNMP Trap ID: 27
CIM Prefix: PLAT CIM ID: 0169

User Action:

Information only; no action is required.

- **FQXSPSD2012I: Hot Spare disabled for drive [DriveLocation] in the enclosure/chassis (MTM-SN: [MachineSerialNumber]).**

  This message is for the use case when an implementation has detected a Hot Spare has been disabled.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0171

  User Action:

  Information only; no action is required.

- **FQXSPSD2015I: Array rebuild completed on drive [DriveLocation] in the enclosure/chassis (MTM-S/N: [MachineSerialNumber]).**

  This message is for the use case when an implementation has detected that an array rebuild has completed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0179

  User Action:

  Information only; no action is required.

- **FQXSPSE0000F: The Chassis [ComputerSystemName] was opened.**

  This message is for the use case when the chassis has been opened.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0004

  User Action:

  Complete the following steps until the problem is solved:

  1. Reseat the chassis cover.
  2. Check if the intrusion switch is present. If yes, inspect intrusion switch cable for damage and make sure that it is not loose.
  3. Check the active events and confirm that the "chassis sensor" has de-asserted.
  4. If the problem persists, collect service data log.

5. Contact Lenovo Support.

- **FQXSPSE0010J: System Guard detected inventory mismatch with trusted snapshot.**

  This message is for the use case when an implementation has detected that System Guard detected inventory mismatch with trusted snapshot.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0520

  User Action:

  Complete the following steps until the problem is solved:

  1. If the user sets up the server for the first time after receiving the order, check with the seller whether there was a hardware change made since the system left Lenovo manufacturing. If the hardware change is expected, ignore this message or deassert the event as described in step 4. If the hardware change is not expected, report the issue to the seller.
  2. If the user enables the System Guard feature after initial setup of hardware, check whether there are any hardware changes or hardware errors. If yes, resolve them first.
  3. If the user enables the feature with the policy “Prevent OS booting (only on CPU and DIMM event)”, UEFI boot would stop during POST and promote user input with warning on the POST screen. See System Guard User Guide for details.
  4. To acknowledge the inventory change of hardware components, the user can disable System Guard, or manually capture a snapshot (after POST has completed) from XCC UI. See System Guard User Guide for details.
  5. If the problem persists, collect service data log.
  6. Contact Lenovo Support.

- **FQXSPSE2000I: The Chassis [ComputerSystemName] was closed.**

  This message is for the use case when a chassis has been closed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0005

  User Action:

  Information only; no action is required.

- **FQXSPSE2010I: System guard changed to compliant status.**

  This message is for the use case when an implementation has detected that System Guard changed to compliant status.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0521

User Action:

Information only; no action is required.

- **FQXSPSE4000I: Certificate Authority [arg1] has detected a 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.

  Severity: Error
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0002

  User Action:

  Complete the following steps until the problem is solved:

  1. Make sure that the certificate that you are importing is correct and properly generated.
  2. If the problem persists, collect service data log.
  3. Contact Lenovo Support.

- **FQXSPSE4001I: Remote Login Successful. Login ID: [arg1] using [arg2] from [arg3] at IP address [arg4].**

  This message is for the use case where a user successfully logs in to a management controller.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Remote Login
  SNMP Trap ID: 30
  CIM Prefix: IMM CIM ID: 0014

  User Action:

  Information only; no action is required.

- **FQXSPSE4002I: Security: Userid: [arg1] using [arg2] had [arg3] login failures from WEB client at IP address [arg4].**

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

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Remote Login
  SNMP Trap ID: 30
  CIM Prefix: IMM CIM ID: 0016

  User Action:

  Information only; no action is required.

- **FQXSPSE4003I: 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.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - Remote Login
SNMP Trap ID: 30
CIM Prefix: IMM CIM ID: 0017

User Action:

Information only; no action is required.

- **FQXSPSE4004I: 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.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Remote Login
  SNMP Trap ID: 30
  CIM Prefix: IMM CIM ID: 0018

  User Action:

  Complete the following steps until the problem is solved:

  1. Make sure that the correct login ID and password are being used.
  2. If the problem persists, collect service data log.
  3. Contact Lenovo Support.

- **FQXSPSE4006I: XCC detected an invalid SSL certificate in the Management Controller [arg1].**

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

  Severity: Warning
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0034

  User Action:

  Complete the following steps until the problem is solved:

  1. Make sure that the certificate that you are importing is correct and properly generated / certificate CSR is correct
  2. If the problem persists, collect service data log.
  3. Contact Lenovo Support.

- **FQXSPSE4007I: Security: Userid: [arg1] using [arg2] had [arg3] login failures from an SSH client at IP address [arg4].**

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

  Severity: Info
  Serviceable: No
  Automatically notify Support: No

Alert Category: System - Remote Login
SNMP Trap ID: 30
CIM Prefix: IMM CIM ID: 0041

User Action:

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.
3. If the problem persists, collect service data log.
4. Contact Lenovo Support.

- **FQXSPSE4008I: SNMPv1 [arg1] set by user [arg2]: Name=[arg3], AccessType=[arg4], Address=[arg5] from [arg6] at IP address [arg7].**

  A user changed the SNMP community string.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0075

  User Action:

  Information only; no action is required.

- **FQXSPSE4009I: LDAP Server configuration set by user [arg1]: AuthenticatonOnly=[arg2], UseDNS=[arg3], ForestName=[arg4], DomainName=[arg5], Server1=[arg6], Server2=[arg7], Server3=[arg8], Server4=[arg9] from [arg10] at IP address [arg11].**

  A user changed the LDAP server configuration.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0076

  User Action:

  Information only; no action is required.

- **FQXSPSE4010I: LDAP set by user [arg1]: Type=[arg2], RootDN=[arg3], UserSearchAttribute=[arg4], BindingMethod=[arg5], GroupFilter=[arg6], GroupSearchAttribute=[arg7], LoginAttribute=[arg8] from [arg9] at IP address [arg10].**

  A user configured an LDAP Miscellaneous setting.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0077

  User Action:

Information only; no action is required.

- **FQXSPSE4011I: Secure Web services (HTTPS) [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  A user enables or disables Secure web services.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0091

  User Action:

  Information only; no action is required.

- **FQXSPSE4013I: Secure LDAP [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  A user enables or disables Secure LDAP services.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0093

  User Action:

  Information only; no action is required.

- **FQXSPSE4014I: SSH [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  A user enables or disables SSH services.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0094

  User Action:

  Information only; no action is required.

- **FQXSPSE4015I: Global Login General Settings set by user [arg1]: AuthenticationMethod=[arg2], LockoutPeriod=[arg3], SessionTimeout=[arg4] from [arg5] at IP address [arg6].**

  A user changes the Global Login General Settings.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0098

  User Action:

  Information only; no action is required.

- **FQXSPSE4016I: Global Login Account Security set by user [arg1]: ForceToChangePasswordOnFirstAccess=[arg2], ComplexPasswordRequired=[arg3], PasswordExpirationPeriod=[arg4], MinimumPasswordReuseCycle=[arg5], MinimumPasswordLength=[arg6], MinimumPasswordChangeInterval=[arg7], MaxmumLoginFailures=[arg8], LockoutAfterMaxFailures=[arg9] from [arg10] at IP address [arg11].**

  A user changes the Global Login Account Security Settings.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0099

  User Action:

  Information only; no action is required.

- **FQXSPSE4022I: User [arg1] for SNMPv3 agent set: AuthenticationProtocol=[arg2], PrivacyProtocol=[arg3], AccessType=[arg4] by user [arg5] from [arg6] at IP address [arg7].**

  A user account SNMPv3 settings changed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0105

  User Action:

  Information only; no action is required.

- **FQXSPSE4023I: SSH Client key added for user [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  A user locally defined an SSH Client key.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0106

  User Action:

  Information only; no action is required.

- **FQXSPSE4024I: SSH Client key imported for user [arg1] from [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  A user imported an SSH Client key.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0107

User Action:

Information only; no action is required.

- **FQXSPSE4025I: SSH Client key removed from user [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  A user removed an SSH Client key.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0108

  User Action:

  Information only; no action is required.

- **FQXSPSE4028I: Security: Userid: [arg1] had [arg2] login failures from IPMI 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 IPMI.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Remote Login
  SNMP Trap ID: 30
  CIM Prefix: IMM CIM ID: 0153

  User Action:

  Information only; no action is required.

- **FQXSPSE4029I: Security: Userid: [arg1] had [arg2] login failures from SNMP client at IP address [arg3].**

  This message is for the use case where a user has failed to access a management controller from SNMP.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Remote Login
  SNMP Trap ID: 30
  CIM Prefix: IMM CIM ID: 0154

  User Action:

  Information only; no action is required.

- **FQXSPSE4032I: Login ID: [arg1] from [arg2] at IP address [arg3] has logged off.**

  This message is for the use case where a user has logged off a management controller.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Remote Login
  SNMP Trap ID: 30
  CIM Prefix: IMM CIM ID: 0157

User Action:

Information only; no action is required.

- **FQXSPSE4034I: User [arg1] has removed a certificate from [arg2] at IP address [arg3].**

  A user removed a certificate.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0164

  User Action:

  Information only; no action is required.

- **FQXSPSE4035I: A certificate has been revoked.**

  A certificate has been revoked.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0165

  User Action:

  Information only; no action is required.

- **FQXSPSE4036I: The [arg1] certificate is expired and has been removed.**

  Expired certificate has been removed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0190

  User Action:

  Information only; no action is required.

- **FQXSPSE4038I: Minimum TLS level modified from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  Minimum TLS level modified.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0219

  User Action:

Information only; no action is required.

- **FQXSPSE4039I: Temporary user account [arg1] is created by inband tool.**

  A temporary user account is created.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0228

  User Action:

  Information only; no action is required.

- **FQXSPSE4040I: Temporary user account [arg1] expires.**

  A temporary user account expires.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0229

  User Action:

  Information only; no action is required.

- **FQXSPSE4042I: The third-party password function [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  This message is for the use case where a user successfully switches the third-party password function.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0238

  User Action:

  Information only; no action is required.

- **FQXSPSE4043I: Retrieving the third-party password [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  This message is for the use case where a user successfully switches the retrieving the third-party password.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0239

  User Action:

Information only; no action is required.

- **FQXSPSE4044I: User [arg1] third-party hashed password has been [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  This message is for the use case where a user successfully manages the third-party hashed password.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0240

  User Action:

  Information only; no action is required.

- **FQXSPSE4045I: The Salt of user [arg1] third-party password has been [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  This message is for the use case where a user successfully manages the third-party password salt.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0241

  User Action:

  Information only; no action is required.

- **FQXSPSE4046I: The third-party password of the user [arg1] has been retrieved by user [arg2] from [arg3] at IP address [arg4].**

  This message is for the use case where a user successfully retrieving the third-party password.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0242

  User Action:

  Information only; no action is required.

- **FQXSPSE4047I: Role [arg1] is [arg2] and assigned with custom privileges [arg3] by user [arg4] from [arg5] at IP address [arg6].**

  A role is created, modified and assigned.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0246

  User Action:

Information only; no action is required.

- **FQXSPSE4048I: Role [arg1] is removed by user [arg2] from [arg3] at IP address [arg4].**

  A role is removed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0247

  User Action:

  Information only; no action is required.

- **FQXSPSE4049I: Role [arg1] is assigned to user [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  A role is assigned.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0248

  User Action:

  Information only; no action is required.

- **FQXSPSE4050I: [arg1] sent IPMI command from [arg2], raw data: [arg3][arg4][arg5].**

  This message is for the use case where IPMI command to be sent.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0251

  User Action:

  Information only; no action is required.

- **FQXSPSE4051I: Management Controller [arg1] joined the neighbor group [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  This message is for the use case where MC joins a group.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0261

  User Action:

  Information only; no action is required.

- **FQXSPSE4052I: The password of neighbor group [arg1] is modified by [arg2] [arg3] from [arg4] at IP address [arg5].**

  This message is for the use case where the group user password is modified.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0262

  User Action:

  Information only; no action is required.

- **FQXSPSE4053I: Management Controller [arg1] left the neighbor group [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  This message is for the use case where MC leaves a group.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0263

  User Action:

  Information only; no action is required.

- **FQXSPSE4054I: IPMI SEL wrapping mode is [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  IPMI SEL wrapping mode is changed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0264

  User Action:

  Information only; no action is required.

- **FQXSPSE4055I: SED encryption is enabled by user [arg1] from [arg2] at IP address [arg3].**

  SED encryption is enabled.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0265

  User Action:

  Information only; no action is required.

- **FQXSPSE4056I: SED AK is [arg1] by user [arg2] from [arg3] at IP address [arg4].**

SED AK is regenerated or recovered.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0266

User Action:

Information only; no action is required.

- **FQXSPSE4057I: User [arg1] created by user [arg2] from [arg3] at IP address [arg4].**

  A user account was created by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0267

  User Action:

  Information only; no action is required.

- **FQXSPSE4058I: User [arg1] removed by user [arg2] from [arg3] at IP address [arg4].**

  A user account was deleted by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0268

  User Action:

  Information only; no action is required.

- **FQXSPSE4059I: User [arg1] password modified by user [arg2] from [arg3] at IP address [arg4].**

  A user account was changed by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0269

  User Action:

  Information only; no action is required.

- **FQXSPSE4060I: User [arg1] role set to [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  A user account role assigned by a user.

  Severity: Info
  Serviceable: No

Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0270

User Action:

Information only; no action is required.

- **FQXSPSE4061I: User [arg1] custom privileges set: [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  User account priveleges assigned by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0271

  User Action:

  Information only; no action is required.

- **FQXSPSE4062I: The system guard snapshot is captured by user [arg1] from [arg2] at IP address [arg3].**

  The system guard snapshot is captured by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0278

  User Action:

  Information only; no action is required.

- **FQXSPSE4063I: The system guard configuration is updated: status=[arg1], hardware inventory= [arg2] and action=[arg3] by user [arg4] from [arg5] at IP address [arg6].**

  The system guard configuration is updated by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0279

  User Action:

  Information only; no action is required.

- **FQXSPSE4064I: SNMPv3 engine ID is changed from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  SNMPv3 engine ID changed.

  Severity: Info

Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0282

User Action:

Information only; no action is required.

- **FQXSPSE4065I: SFTP [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  A user enables and disables SFTP service.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0283

  User Action:

  Information only; no action is required.

- **FQXSPSE4066I: Security mode is modified from [arg1] to [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  Security mode modified by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0284

  User Action:

  Information only; no action is required.

- **FQXSPSE4067I: User [arg1] accessible interfaces is set to [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  User account accessible interfaces assigned by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0285

  User Action:

  Information only; no action is required.

- **FQXSPSE4068I: Security: Userid: [arg1] using [arg2] had [arg3] login failures from Redfish client at IP address [arg4].**

  This message is for the use case where a user has failed to log in to a management controller from Redfish.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - Remote Login
SNMP Trap ID: 30
CIM Prefix: IMM CIM ID: 0289

User Action:

Information only; no action is required.

- **FQXSPSE4069I: LDAP set by user [arg1]: RootDN=[arg2], UIDSearchAttribute=[arg3], BindingMethod=[arg4], TargetName=[arg5], GroupFilter=[arg6], GroupAttribute=[arg7], LoginAttribute=[arg8] from [arg9] at IP address [arg10].**

  A user configured an LDAP Miscellaneous setting.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0290

  User Action:

  Information only; no action is required.

- **FQXSPSE4074I: Security mode downgrades because the XCC2 Platinum Upgrade key is expired or deleted.**

  This message is for the use case where security mode downgrades because XCC2 Platinum Upgrade key is expired or deleted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0300

  User Action:

  Information only; no action is required.

- **FQXSPSE4079I: The Operator role is [arg1] to contain Remote Console Access permission by user [arg2] from [arg3] at IP address [arg4].**

  Update privilege to enable/disable Operator to access Remote Console.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0322

  User Action:

  Information only; no action is required.

- **FQXSPSE4080I: The user [arg1] attempts to clear CMOS from [arg2] at IP address [arg3].**

A user attempts to clear CMOS.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0323

User Action:

Information only; no action is required.

- **FQXSPSE4081I: BMC returns the valid local cached key to UEFI for SED drives.**

  This message is for the use case where BMC returns the local cached key to UEFI for SED drives.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0327

  User Action:

  Information only; no action is required.

- **FQXSPSE4082I: Remote key management server is inaccessible.**

  This message is for the use case where remote key management server is inaccessible.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0330

  User Action:

  Information only; no action is required.

- **FQXSPSE4083I: The local cached key has expired and destroyed it.**

  This message is for the use case where the local cached key has expired and been destroyed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0331

  User Action:

  Information only; no action is required.

- **FQXSPSE4084I: Periodic connection to remote key management server succeeded.**

  This message is for the use case where the remote key management server poll function has succeeded.

  Severity: Info
  Serviceable: No

Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0332

User Action:

Information only; no action is required.

- **FQXSPSE4085I: Periodic connection to remote key management server failed.**

  This message is for the use case where the remote key management server poll function has failed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0333

  User Action:

  Information only; no action is required.

- **FQXSPSE4091I: SNMPv2 [arg1] set by user [arg2]: Name=[arg3], AccessType=[arg4], Address=[arg5].**

  A user changed the SNMP community string.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0339

  User Action:

  Information only; no action is required.

- **FQXSPSE4092I: SNMPv1 Community-1 set by user [arg1]: Name=[arg2], AccessType=trap from [arg3] at IP address [arg4].**

  A user changed the SNMPv1 community name.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0345

  User Action:

  Information only; no action is required.

- **FQXSPSE4093I: SNMPv1 Community-1 set by user [arg1]: address=[arg2] from [arg3] at IP address [arg4].**

  A user changed the SNMPv1 community address.

  Severity: Info
  Serviceable: No

Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0346

User Action:

Information only; no action is required.

- **FQXSPSE4094I: SNMPv2 Community-1 set by user [arg1]: Name=[arg2], AccessType=trap from [arg3] at IP address [arg4].**

  A user changed the SNMPv2 community name.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0347

  User Action:

  Information only; no action is required.

- **FQXSPSE4095I: SNMPv2 Community-1 set by user [arg1]: address=[arg2] from [arg3] at IP address [arg4].**

  A user changed the SNMPv1 community address.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0348

  User Action:

  Information only; no action is required.

- **FQXSPSE4096I: User [arg1] for SNMPv3 trap set: AuthenticationProtocol=[arg2], PrivacyProtocol=[arg3], HostforTraps=[arg4] by user [arg5] from [arg6] at IP address [arg7].**

  SNMPv3 trap user settings is changed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0350

  User Action:

  Information only; no action is required.

- **FQXSPSE4097I: User [arg1] for SNMPv3 trap is deleted by user [arg2] from [arg3] at IP address [arg4].**

  SNMPv3 trap user is deleted.

  Severity: Info

Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0351

User Action:

Information only; no action is required.

- **FQXSPSE4098I: Security: Userid: [arg1] failed to login from [arg2] at IP address [arg3].**

  This message is for the use case where a non-local user has failed to access a management controller by SSH, Web, Redfish and IPMI over Lan.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Remote Login
  SNMP Trap ID: 30
  CIM Prefix: IMM CIM ID: 0353

  User Action:

  Information only; no action is required.

- **FQXSPSE4129I: Security: Userid: [arg1] failed to login from SNMP client at IP address [arg2].**

  This message is for the use case where a user has failed to access a management controller from SNMP.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Remote Login
  SNMP Trap ID: 30
  CIM Prefix: IMM CIM ID: 0349

  User Action:

  Information only; no action is required.

- **FQXSPSS0012G: [System] cannot detect [DeviceName].**

  This message is for the use case when an implementation has detected that a device cannot be detected.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0865

  User Action:

  Complete the following steps until the problem is solved:

  1. Power off the server, disconnect the AC power cable and reconnectaffected adapter and riser card.
  2. If the problem persists, upgrade XCC, FPGA, and UEFI to the latest versions.
  3. If the problem persists, collect service data logs.
  4. Contact Lenovo Support.

- **FQXSPSS4000I: Management Controller Test Alert Generated by [arg1] from [arg2] at IP address [arg3].**

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

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0040

  User Action:

  Information only; no action is required.

- **FQXSPSS4001I: Server General Settings set by user [arg1]: Name=[arg2], Contact=[arg3], Location=[arg4], Room=[arg5], RackID=[arg6], Rack U-position=[arg7], Address=[arg8] from [arg9] at IP address [arg10].**

  A user configured the Location setting.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0080

  User Action:

  Information only; no action is required.

- **FQXSPSS4002I: License key for [arg1] added by user [arg2] from [arg3] at IP address [arg4].**

  A user installs License Key.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0096

  User Action:

  Information only; no action is required.

- **FQXSPSS4003I: License key for [arg1] removed by user [arg2] from [arg3] at IP address [arg4].**

  A user removes a License Key.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0097

  User Action:

  Information only; no action is required.

- **FQXSPSS4004I: Test Call Home Generated by user [arg1] from [arg2] at IP address [arg3].**

  Test Call Home generated by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: Yes
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0134

  User Action:

  Information only; no action is required.

- **FQXSPSS4006I: Call Home to [arg1] failed to complete: [arg2].**

  Call Home failed to complete.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0195

  User Action:

  Information only; no action is required.

- **FQXSPSS4007I: The BMC functionality tier is changed from [arg1] to [arg2].**

  Tier changed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0222

  User Action:

  Information only; no action is required.

- **FQXSPSS4008I: The UEFI setting has been changed by user [arg1] from address [arg2]. A total of [arg3] items were changed in the request.**

  The setting has been changed by a user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0225

  User Action:

  Information only; no action is required.

- **FQXSPSS4009I: System enters LXPM maintenance mode.**

The system enters maintenance mode.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0226

User Action:

Information only; no action is required.

- **FQXSPSS4010I: Test Audit Log generated by user [arg1] from [arg2] at IP address [arg3].**

  This message is for the use case where test Audit Log is generated.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0237

  User Action:

  Information only; no action is required.

- **FQXSPSS4011I: Fan speed boost setting is changed from [arg1] to [arg2].**

  The setting of fan speed boost is changed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0254

  User Action:

  Information only; no action is required.

- **FQXSPSS4012I: The [arg1] setting has been changed to [arg2] by user [arg3] from [arg4] at IP address [arg5].**

  The setting has been changed by user.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0354

  User Action:

  Information only; no action is required.

- **FQXSPTR4001I: Date and Time set by user [arg1]: Date=[arg2], Time-[arg3], DST Auto-adjust=[arg4], Timezone=[arg5] from [arg6] at IP address [arg7].**

  A user configured the Date and Time settings.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0079

User Action:

Information only; no action is required.

- **FQXSPTR4002I: Synchronize time setting by user [arg1]: Mode=Sync with NTP Server, NTPServerHost1=[arg2],NTPServerHost2=[arg3],NTPServerHost3=[arg4],NTPServerHost4=[arg5], NTPUpdateFrequency=[arg6] from [arg7] at IP address [arg8].**

  A user configured the Date and Time synchronize settings.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0085

  User Action:

  Information only; no action is required.

- **FQXSPTR4003I: Synchronize time setting by user [arg1]: Mode=Sync with server clock from [arg2] at IP address [arg3].**

  A user configured the Date and Time synchronize settings.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0224

  User Action:

  Information only; no action is required.

- **FQXSPUN0009G: BMC firmware corruption is detected.**

  This message is for the use case when an implementation has detected a sensor has asserted.

  Severity: Warning
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0508

  User Action:

  Complete the following steps until the problem is solved:

  1. Try to access the XCC by original IP. If networking does not have response, try to access the XCC by default IP directly through dedicated XCC management port. If none of the above external IP worked, try the in band IP: 169.254.95.120 with lanoverusb enabled in OS.

2. If XCC is accessible by the following the item#1, update the XCC both primary/2nd bank FW.
3. If XCC is not accessible, reboot the system.
4. Press F1 or use LXPM to do XCC firmware update.
5. If the problem persists, collect service data logs.
6. Contact Lenovo Support.

- **FQXSPUN0017I: The cooling liquid has stopped leaking and transitioned to normal state with sensor [DripName].**

  This message is for the use case when an implementation has detected liquid is not leaking anymore for chassis drip or tray drip.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0894

  User Action:

  Information only; no action is required.

- **FQXSPUN0026I: Low Security Jumper is enabled.**

  This message is for the use case when an implementation has detected a device was inserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0536

  User Action:

  Information only; no action is required.

- **FQXSPUN0048I: The RAID controller in PCI slot [PCILocation] in optimal status.**

  This message is for the use case when an implementation has detected that a sensor transitioned to the normal state.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0518

  User Action:

  Information only; no action is required.

- **FQXSPUN0049J: The RAID controller in PCIe slot [PCILocation] is in warning status. At least one physical drive is in unconfigured bad state.**

  This message is for the use case when an implementation has detected that a sensor transitioned to non-critical from normal.

  Severity: Warning

Serviceable: Yes
Automatically notify Support: No
Alert Category: Warning - Other
SNMP Trap ID: 60
CIM Prefix: PLAT CIM ID: 0520

User Action:

Complete the following steps until the problem is solved:

1. Review RAID logs to understand why the drive is on U_BAD state.
2. If the problem persists, collect service data log.
3. Contact Lenovo Support.

- **FQXSPUN0050M: The RAID controller in PCIe slot [PCILocation] is in critical state. Volume [VolumeID] is offline.**

  This message is for the use case when an implementation has detected that a sensor transitioned to critical from less severe.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0522

  User Action:

  Complete the following steps until the problem is solved:

  1. Check if the configured drives are present and they are properly connected.
  2. Go to system setup and check if the devices are displayed in UEFI/XCC.
  3. Ensure that the drives are spun-up and have power supplied to them.
  4. If there is a backplane, check the connectors to ensure that power is being supplied to the drives.
  5. If the problem persists, collect service data log.
  6. Contact Lenovo Support.

- **FQXSPUN0051J: The RAID controller in PCIe slot [PCILocation] has asserted a warning. Foreign configuration is detected.**

  This message is for the use case when an implementation has detected that a sensor transitioned to non-critical from normal.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0520

  User Action:

  Complete the following steps until the problem is solved:

  1. This is a general event when a sensor (any type) transitions from normal to a non-critical state. Monitor the sensor and if it transitions to critical state,
  2. If the problem persists, collect service data log.

3. Contact Lenovo Support.

- **FQXSPUN0053M: The RAID controller in PCIe slot [PCILocation] is in critical status. At least one physical drive is failed.**

  This message is for the use case when an implementation has detected that a sensor transitioned to critical from less severe.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0522

  User Action:

  Complete the following steps until the problem is solved:

  1. Reseat the drive.
  2. If the problem persists, collect service data log.
  3. Contact Lenovo Support.

- **FQXSPUN0054M: The RAID controller in PCIe slot [PCILocation] is in critical status. Volume [VolumeID] is degraded.**

  This message is for the use case when an implementation has detected that a sensor transitioned to critical from less severe.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0522

  User Action:

  Complete the following steps until the problem is solved:

  1. Reseat the drive.
  2. If the problem persists, collect service data log.
  3. Contact Lenovo Support.

- **FQXSPUN0055M: The RAID controller in PCIe slot [PCILocation] is in critical state. Battery is in non-optimal state.**

  This message is for the use case when an implementation has detected that a sensor transitioned to critical from less severe.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0522

  User Action:

  Complete the following steps until the problem is solved:

1. Check whether a RAID battery is installed and attached.
2. If no RAID battery is installed, please ignore this message.
3. If a RAID battery is installed, check the RAID battery for air flow obstruction and ensure that battery cables are properly connected.
4. If the problem persists, collect service data log.
5. Contact Lenovo Support.

- **FQXSPUN0057I: The RAID controller in PCI slot [PCILocation] does not have a battery.**

  This message is for the use case when an implementation has detected a RAID controller does not have a battery.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0532

  User Action:

  Information only; no action is required.

- **FQXSPUN0058J: The remaining life of [DriveName] is lower than the warning threshold ([ThresholdValue]).**

  This message is for the use case when an implementation has detected the remaining life of any one of the drives in the system is lower than the defined threshold.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0520

  User Action:

  Complete the following steps until the problem is solved:

  1. Reseat the drive.
  2. If the problem persists, collect service data log.
  3. Contact Lenovo Support.

- **FQXSPUN0059J: RoT attestation has detected a failure.**

  This message is for the use case when an implementation has detected that a sensor transitioned to non-critical from normal.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0520

  User Action:

  Complete the following steps until the problem is solved:

1. Perform virtual system reseat or A/C power cycle.
2. If the problem persists, collect service data log.
3. Contact Lenovo Support.

- **FQXSPUN0060G: RoT mismatch has asserted.**

  This message is for the use case when an implementation has detected a sensor has asserted.

  Severity: Warning
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0508

  User Action:

  Complete the following steps until the problem is solved:

  1. Check whether the system I/O board was moved from another system.
  2. If yes, move the original one back.
  3. If the problem persists, collect service data logs.
  4. Contact Lenovo Support.

- **FQXSPUN0061I: System Maintenance Mode has asserted.**

  This message is for the use case when an implementation has detected a sensor has asserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0508

  User Action:

  Information only; no action is required.

- **FQXSPUN0062I: SMI Timeout has asserted.**

  This message is for the use case when an implementation has detected a sensor has asserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0508

  User Action:

  Complete the following steps until the problem is solved:

  1. If the server is constantly rebooting, perform a virtual reseat or A/C cycle on the server.
  2. If the problem persists, collect service data logs.
  3. Contact Lenovo Support.

- **FQXSPUN0063I: PSU heavy load has asserted.**

This message is for the use case when an implementation has detected a sensor has asserted.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: PLAT CIM ID: 0508

User Action:

Information only; no action is required.

- **FQXSPUN0065J: UEFI firmware authentication failure is detected.**

This message is for the use case when an implementation has detected that a fatal motherboard failure in the system.

Severity: Warning
Serviceable: Yes
Automatically notify Support: No
Alert Category: Warning - Other
SNMP Trap ID: 60
CIM Prefix: PLAT CIM ID: 0520

User Action:

Complete the following steps until the problem is solved:

1. Check if there is a de-asserted event (FQXSPUN2065I) triggered after this event is asserted before entering the OS.
2. If yes, ignore this event because this problem is fixed by a recovery algorithm.
3. If not, Update UEFI firmware to the latest version and power cycle the system.

   Note: Check XCC minimum dependency documented in change history before loading new UEFI build.
4. If the problem persists, update XCC firmware to the latest version and A/C power cycle the system.
5. If the problem persists, collect service data log.
6. Contact Lenovo Support.

- **FQXSPUN0067M: Failed to automatically recover UEFI firmware from authentication failure.**

This message is for the use case when an implementation has detected that a sensor transitioned to critical from less severe.

Severity: Error
Serviceable: Yes
Automatically notify Support: No
Alert Category: Critical - Other
SNMP Trap ID: 50
CIM Prefix: PLAT CIM ID: 0522

User Action:

Complete the following steps until the problem is solved:

1. Update UEFI firmware and power cycle the system.

   Note: Check XCC minimum dependency documented in change history before loading new UEFI build.

2. If the problem persists, update XCC firmware to the latest and A/C power cycle the system.
3. If the problem persists, collect service data log.
4. Contact Lenovo Support.

- **FQXSPUN0068M: [DriveName] Mismatch has transitioned to critical from a less severe state.**

  This message is for the use case when an implementation has detected that a sensor transitioned to critical from less severe.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0522

  User Action:

  Complete the following steps until the problem is solved:

  1. Make sure that the type of drives is supported by the system configuration and is correct for the specific drive slot.
  2. Power off the system and do virtual AC cycle through XCC/BMC.
  3. If the problem persists, collect service data log.
  4. Contact Lenovo Support.

- **FQXSPUN0069M: The remaining life of [DriveName] is lower than the critical threshold ([ThresholdValue]).**

  This message is for the use case when an implementation has detected the remaining life of any one of the drives in the system is lower than the defined threshold.

  Severity: Error
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0520

  User Action:

  Complete the following steps until the problem is solved:

  1. Reseat the drive.
  2. If the problem persists, collect service data log.
  3. Contact Lenovo Support.

- **FQXSPUN2012I: BMC firmware corrupted has deasserted.**

  This message is for the use case when an implementation has detected a sensor has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0509

  User Action:

Information only; no action is required.

- **FQXSPUN2026I: Low Security Jumper is disabled.**

  This message is for the use case when an implementation has detected a device was removed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0537

  User Action:

  Information only; no action is required.

- **FQXSPUN2049I: The RAID controller in PCI slot [PCILocation] is no longer in warning status.**

  This message is for the use case when an implementation has detected that a sensor has deasserted and transitioned to non-critical from normal.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0521

  User Action:

  Information only; no action is required.

- **FQXSPUN2050I: The RAID controller in PCI slot [PCILocation] is no longer in critical status.**

  This message is for the use case when an implementation has detected that a sensor transitioned to less severe from critical.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0523

  User Action:

  Information only; no action is required.

- **FQXSPUN2057I: The RAID controller in PCI slot [PCILocation] has a battery now.**

  This message is for the use case when an implementation has detected that a RAID controller has a battery.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0533

  User Action:

Information only; no action is required.

- **FQXSPUN2058I: The remaining life for all SSDs is above threshold [ThresholdValue].**

  This message is for the use case when an implementation has detected that the remaining life for all SSDs is above threshold.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0521

  User Action:

  Information only; no action is required.

- **FQXSPUN2061I: System Maintenance Mode has deasserted.**

  This message is for the use case when an implementation has detected that a sensor acoustic mode has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0509

  User Action:

  Information only; no action is required.

- **FQXSPUN2062I: SMI Timeout has deasserted.**

  This message is for the use case when an implementation has detected that a sensor acoustic mode has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0509

  User Action:

  Information only; no action is required.

- **FQXSPUN2063I: PSU heavy load has deasserted.**

  This message is for the use case when an implementation has detected that a sensor acoustic mode has deasserted.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0509

  User Action:

Information only; no action is required.

- **FQXSPUN2065I: UEFI firmware is automatically recovered from authentication failure.**

  This message is for the use case when an implementation has detected that UEFI firmware is automatically recovered from authentication failure.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 60
  CIM Prefix: PLAT CIM ID: 0521

  User Action:

  Information only; no action is required.

- **FQXSPUN2067I: UEFI firmware is manually recovered from authentication failure.**

  This message is for the use case when an implementation has detected that a sensor transitioned to less severe from critical.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0523

  User Action:

  Information only; no action is required.

- **FQXSPUN2068I: [DriveName] Mismatch has transitioned to a less severe state from critical.**

  This message is for the use case when an implementation has detected that a sensor transitioned to less severe from critical.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: Critical - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0523

  User Action:

  Information only; no action is required.

- **FQXSPUP0002I: A firmware or software change occurred on system [ComputerSystemName].**

  This message is for the use case when an implementation has detected that the firmware or software changed.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0438

  User Action:

Complete the following steps until the problem is solved:

1. Update primary XCC firmware image and restart management controller (XCC).
2. If the problem persists, collect service data log.
3. Contact Lenovo Support.

- **FQXSPUP0007L: BMC primary firmware is corrupted, auto fail over to backup.**

  This message is for the use case when an implementation has detected an Invalid/Unsupported Firmware/Software Version.

  Severity: Warning
  Serviceable: Yes
  Automatically notify Support: No
  Alert Category: Warning - Other
  SNMP Trap ID: 50
  CIM Prefix: PLAT CIM ID: 0446

  User Action:

  Complete the following steps until the problem is solved:

  1. Flash XCC firmware to the latest level and reboot system.
  2. If the problem persists, collect service data log.
  3. Contact Lenovo Support.
  4. Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up the TPM Encryption Recovery Key.

- **FQXSPUP4003I: [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.

  Severity: Error
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0042

  User Action:

  Complete the following steps until the problem is solved:

  1. AC cycle the system.
  2. Reflash XCC/BMC firmware to the latest version.

     Note: 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. If the problem persists, collect service data log.
  4. Contact Lenovo Support.

- **FQXSPUP4006I: Auto promote primary XCC to backup is [arg1] by user [arg2] from [arg3] at IP address [arg4].**

  Auto promote primary XCC to backup is enabled or disabled.

  Severity: Info

Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: IMM CIM ID: 0281

User Action:

Information only; no action is required.

- **FQXSPUP4007I: Violation access to XCC SPI flash is detected and isolated.**

  This message is for the use case where violation access to XCC SPI flash is detected and isolated.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0298

  User Action:

  Complete the following steps until the problem is solved:

  1. Check for presence of hardware tampering or unauthorized physical access to the server.
  2. If the problem persists, collect service data log.
  3. Contact Lenovo Support.

- **FQXSPUP4008I: Violation access to UEFI SPI flash is detected and isolated.**

  This message is for the use case where violation access to UEFI SPI flash is detected and isolated.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0299

  User Action:

  Complete the following steps until the problem is solved:

  1. Check for presence of hardware tampering, unauthorized physical access to the server, or presence of any malware in host OS trying to write to UEFI flash memory.
  2. If the problem persists, collect service data log.
  3. Contact Lenovo Support.

- **FQXSPUP4009I: Please ensure that the system is flashed with the correct [arg1] firmware. The Management Controller is unable to match the firmware to the server.**

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

  Severity: Error
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0324

User Action:

Complete the following steps until the problem is solved:

1. Check the firmware package is correct.
2. Reboot XCC and flash the firmware again.
3. If the problem persists, collect service data log.
4. Contact Lenovo Support.

- **FQXSPUP4010I: Update [arg1] of [arg2] from [arg3] succeeded for user [arg4].**

  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).

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0325

  User Action:

  Information only; no action is required.

- **FQXSPUP4011I: Update [arg1] of [arg2] from [arg3] failed for user [arg4].**

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

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: IMM CIM ID: 0326

  User Action:

  Information only; no action is required.

- **FQXSPWD0000I: Watchdog Timer expired for [WatchdogName].**

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

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0368

  User Action:

  Information only; no action is required.

- **FQXSPWD0001I: Reboot of system [ComputerSystemName] initiated by watchdog [WatchdogName].**

  This message is for the use case when an implementation has detected that a reboot by Watchdog occurred.

Severity: Info
Serviceable: No
Automatically notify Support: No
Alert Category: System - Other
SNMP Trap ID: 22
CIM Prefix: PLAT CIM ID: 0370

User Action:

Information only; no action is required.

- **FQXSPWD0002I: Powering off system [ComputerSystemName] initiated by watchdog [WatchdogName].**

  This message is for the use case when an implementation has detected that a power-off by Watchdog has occurred.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0372

  User Action:

  Information only; no action is required.

- **FQXSPWD0003I: Power cycle of system [ComputerSystemName] initiated by watchdog [WatchdogName].**

  This message is for the use case when an implementation has detected that a power-cycle by Watchdog occurred.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0374

  User Action:

  Information only; no action is required.

- **FQXSPWD0004I: Watchdog Timer interrupt occurred for [WatchdogName].**

  This message is for the use case when an implementation has detected that a Watchdog Timer interrupt occurred.

  Severity: Info
  Serviceable: No
  Automatically notify Support: No
  Alert Category: System - Other
  SNMP Trap ID: 22
  CIM Prefix: PLAT CIM ID: 0376

  User Action:

  Information only; no action is required.

Chapter 3. UEFI events

UEFI error messages can be generated when the server starts up (POST) or while the server is running. UEFI error messages are logged in the Lenovo XClarity Controller 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
Provides 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:

- **Informational**. 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.

User Action
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. If you cannot solve the problem after performing all steps, contact Lenovo Support.

UEFI events organized by severity

The following table lists all UEFI events, organized by severity (Information, Error, and Warning).

Table 3. Events organized by severity

Event ID	Message String	Severity
FQXSFIO0005I	An intra-board UPI has been disabled on the link between processor [arg1] port [arg2] and processor [arg3]port [arg4] because of UPI topology downgrade.	Informational
FQXSFIO0006I	An inter-board UPI has been disabled on the link between processor [arg1] port [arg2] and processor [arg3]port [arg4] because of UPI topology downgrade.	Informational
FQXSFIO0021I	PCIe DPC software triggering occurred in physical [arg1] number [arg2].	Informational
FQXSFMA0001I	DIMM [arg1] Disable has been recovered. [arg2]	Informational
FQXSFMA0006I	[arg1] DIMM [arg2] has been detected, the DIMM serial number is [arg3].	Informational

Table 3. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSFMA0007I	[arg1] DIMM number [arg2] has been replaced. [arg3]	Informational
FQXSFMA0008I	DIMM [arg1] POST memory test failure has been recovered. [arg2]	Informational
FQXSFMA0009I	Invalid memory configuration for Mirror Mode has been recovered.	Informational
FQXSFMA0026I	DIMM [arg1] Self-healing, attempt post-package repair (PPR) succeeded. [arg2]	Informational
FQXSFMA0027I	Invalid memory configuration (unsupported DIMM Population) recovered.	Informational
FQXSFMA0029I	The PFA of DIMM [arg1] has been deasserted after applying PPR for this DIMM. [arg2]	Informational
FQXSFMA0052I	DIMM [arg1] has been disabled due to the error on DIMM [arg2].[arg3]	Informational
FQXSFMA0053I	DIMM [arg1] re-enabled due to memory module combination updating.	Informational
FQXSFMA0056I	Uncorrected memory error occurred on DIMM [arg1] has been deasserted after performing post package repair. DIMM identifier is [arg2].	Informational
FQXSFMA0063I	A correctable memory error handled by ADDDC on DIMM [arg1]. DIMM identifier is [arg2].	Informational
FQXSFMA0065I	Multi-bit CE of DIMM [arg1] has been deasserted after performing post package repair. DIMM identifier is [arg2].	Informational
FQXSFMA0067I	Errors per row counter threshold limit exceeded on DIMM [arg1] has been deasserted after performing post package repair. DIMM identifier is [arg2].	Informational
FQXSFMA0079I	NVRAM [arg1] corruption detected and recovered.	Informational
FQXSFMA0080I	Runtime soft post package repair succeeded on DIMM [arg1].[arg2]	Informational
FQXSFMA0096I	Memory mode has been recovered to [arg1].	Informational
FQXSFPU0025I	The default system settings have been restored.	Informational
FQXSFPU4034I	TPM Firmware recovery is finished, rebooting system to take effect.	Informational
FQXSFPU4038I	TPM Firmware recovery successful.	Informational
FQXSFPU4041I	TPM Firmware update is in progress. Please DO NOT power off or reset system.	Informational
FQXSFPU4042I	TPM Firmware update is finished, rebooting system to take effect.	Informational
FQXSFPU4044I	The current TPM firmware version could not support TPM version toggling.	Informational
FQXSFPU4062I	CPU debugging is deactivated.	Informational
FQXSFPU4080I	Host Power-On password has been changed.	Informational
FQXSFPU4081I	Host Power-On password has been cleared.	Informational
FQXSFPU4082I	Host Admin password has been changed.	Informational
FQXSFPU4083I	Host Admin password has been cleared.	Informational
FQXSFPU4084I	Host boot order has been changed.	Informational

Table 3. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSFPU4092I	UEFI extra setting [arg1] is replaced by UEFI normal setting [arg2] after updating UEFI to [arg3].	Informational
FQXSFPU4094I	UEFI extra settings exposure config file import successfully.	Informational
FQXSFPU4096I	UEFI extra settings exposure config file is deleted and all UEFI extra settings are unset.	Informational
FQXSFSR0002I	[arg1] GPT corruption recovered, DiskGUID: [arg2]	Informational
FQXSFSR0003I	Boot OS successfully.	Informational
FQXSFIO0008M	An intra-board UPI dynamic link width reduction has been detected on the link between processor [arg1] port [arg2] and processor [arg3] port [arg4].	Warning
FQXSFIO0009M	An inter-board UPI dynamic link width reduction has been detected on the link between processor [arg1] port [arg2] and processor [arg3] port [arg4].	Warning
FQXSFIO0021J	PCIe Error Recovery has occurred in physical [arg1] number [arg2]. The [arg3] may not operate correctly.	Warning
FQXSFIO0022J	PCIe Link Width has degraded from [arg1] to [arg2] in physical [arg3] number [arg4].	Warning
FQXSFIO0023J	PCIe Link Speed has degraded from [arg1] to [arg2] in physical [arg3] number [arg4].	Warning
FQXSFIO0024I	An error has been detected by the IEH on processor [arg1]. The type of IEH is [arg2]. The index of the IEH is [arg3]. The value of IehErrorStatus register is [arg4]. Please check error logs for additional downstream device error data.	Warning
FQXSFIO0025I	An error has been detected by the IIO on processor [arg1]. The index of the IIO stack is [arg2]. The type of IIO Internal Error is [arg3]. Please check error logs for additional downstream device error data.	Warning
FQXSFIO0036G	PCIe Correctable Error Threshold limit has been exceeded at Segment 0x[arg1] Bus 0x[arg2] Device 0x[arg3] Function 0x[arg4]. The Vendor ID for the device is 0x[arg5] and the Device ID is 0x[arg6]. The physical [arg7] number is [arg8].	Warning
FQXSFIO0041J	PCIe Leaky Bucket Event : [arg1] occurred at Segment [arg2] Bus [arg3] Device [arg4] Function [arg5]. The physical [arg6] number is [arg7].	Warning
FQXSFMA0026G	Multi-bit CE occurred on DIMM [arg1], need to restart the system for DIMM Self-healing to attempt post package repair (PPR).[arg2]	Warning
FQXSFMA0027G	Multi-bit CE occurred on DIMM [arg1] different rows.[arg2]	Warning
FQXSFMA0027M	DIMM [arg1] Self-healing, attempt post-package repair (PPR) failed. [arg2]	Warning
FQXSFMA0028M	The number of post-package repair (PPR) attempts has reached the limit on DIMM [arg1]. [arg2]	Warning
FQXSFMA0029G	DIMM [arg1] Self-healing, attempt post-package repair (PPR) failed: Spare rows for repair are out of resource. [arg2]	Warning
FQXSFMA0047M	SPD CRC checking failed on DIMM [arg1]. [arg2]	Warning

Table 3. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSFMA0048M	DIMM [arg1] disabled due to PMIC failure during POST, DIMM identifier is [arg2].	Warning
FQXSFMA0049M	DIMM [arg1] disabled due to memory module power failure. DIMM [arg2] detected and good, DIMM [arg3] not detected.	Warning
FQXSFMA0050G	DRAM PFA threshold limit exceeded on DIMM [arg1] sub-channel [arg2] Rank [arg3] DRAM [arg4], DIMM identifier is [arg5].	Warning
FQXSFMA0053G	An uncorrected memory error has been recovered by mirror on DIMM [arg1] at address [arg2].[arg3]	Warning
FQXSFMA0053M	DIMM [arg1] not defective but disabled due to unsupported memory module combination on CPU [arg2].	Warning
FQXSFMA0054G	Mirror failover operation was successful. DIMM [arg1] has failed over to the mirrored DIMM [arg2].[arg3]	Warning
FQXSFMA0055G	Mirror failover operation is skipped and page retire for uncorrectable error (at [arg1]) on DIMM [arg2] is reported to OS. [arg3]	Warning
FQXSFMA0057G	Page Retire PFA Threshold limit exceeded on DIMM [arg1] at address [arg2].[arg3] [arg4]	Warning
FQXSFMA0064M	DIMM [arg1] disabled due to memory module power failure. DIMM [arg2] detected and good.	Warning
FQXSFMA0067G	Errors per row counter threshold limit exceeded on DIMM [arg1] sub-channel [arg2] Rank [arg3] DRAM [arg4], need to restart the system for DIMM Self-healing to attempt post package repair (PPR), DIMM identifier is [arg5].	Warning
FQXSFMA0076M	DIMM [arg1] is not supported, DIMM identifier is [arg2].	Warning
FQXSFMA0081M	Runtime soft post package repair failed on DIMM [arg1], need to restart system to attempt boot time post package repair.[arg2]	Warning
FQXSFMA0094K	CMM device at Bay [arg1] is failed to be active.	Warning
FQXSFMA0095K	Current combination of DIMM and CMM devices does not fulfill the requirements of Heterogeneous Interleave.	Warning
FQXSFMA0096K	Force memory mode from Heterogeneous Interleave to 1LM + Vol.	Warning
FQXSFMA0097K	Force memory mode from Flat Memory Mode to 1LM + Vol.	Warning
FQXSFPU0023G	Secure Boot Image Verification Failure Warning.	Warning
FQXSFPU0039G	3rd party option rom of PCIe physical [arg1] number [arg2] failed secure boot verification.	Warning
FQXSFPU0040G	Secure boot keys were reset to factory default.	Warning
FQXSFPU0062F	System uncorrected recoverable error happened in Processor [arg1] Core [arg2] MC bank [arg3] with MC Status [arg4], MC Address [arg5], and MC Misc [arg6].	Warning
FQXSFPU4033F	TPM Firmware recovery is in progress. Please DO NOT power off or reset system.	Warning
FQXSFPU4035M	TPM Firmware recovery failed. TPM chip may be damaged.	Warning
FQXSFPU4040M	TPM selftest has failed.	Warning

Table 3. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSFPU4050G	Failed to update TPM Firmware.	Warning
FQXSFPU4051G	Undefined TPM_POLICY found.	Warning
FQXSFPU4052G	TPM_POLICY is not locked.	Warning
FQXSFPU4053G	System TPM_POLICY does not match the planar.	Warning
FQXSFPU4062M	CPU debugging is activated.	Warning
FQXSFPU4086G	UEFI extra setting [arg1] is not found in current UEFI [arg2].	Warning
FQXSFPU4087G	UEFI extra setting [arg1] value [arg2] is invalid in current UEFI [arg3].	Warning
FQXSFPU4088G	Custom default[arg1] is not present, unable to append custom default for UEFI extra setting [arg2].	Warning
FQXSFPU4089G	UEFI extra setting [arg1] value [arg2] for custom default[arg3] is invalid in current UEFI [arg4].	Warning
FQXSFPU4090G	UEFI extra setting [arg1] is not found after updating UEFI to [arg2].	Warning
FQXSFPU4091G	UEFI extra setting [arg1] value is changed from [arg2] to [arg3] after updating UEFI to [arg4].	Warning
FQXSFPU4093G	UEFI setting [arg1] value [arg2] of custom default[arg3] is invalid in current UEFI [arg4].	Warning
FQXSFPU4095G	UEFI extra settings exposure config file import failed.	Warning
FQXSFPW0001L	CMOS has been cleared.	Warning
FQXSFSR0001M	[arg1] GPT corruption detected, DiskGUID: [arg2]	Warning
FQXSFSR0003G	The number of boot attempts has been exceeded. No bootable device found.	Warning
FQXSFTR0001L	An invalid date and time have been detected.	Warning
FQXSFIO0005M	An intra-board UPI failure has been detected on the link between processor [arg1] port [arg2] and processor [arg3] port [arg4].	Error
FQXSFIO0006M	An inter-board UPI failure has been detected on the link between processor [arg1] port [arg2] and processor [arg3] port [arg4].	Error
FQXSFIO0013M	New added PCI device(s) at [arg1] triggered [arg2] out of resource.	Error
FQXSFIO0024M	An error has been detected by the IEH on processor [arg1]. The type of IEH is [arg2]. The index of the IEH is [arg3]. The value of IehErrorStatus register is [arg4]. Please check error logs for additional downstream device error data.	Error
FQXSFIO0025M	An error has been detected by the IIO on processor [arg1]. The index of the IIO stack is [arg2]. The type of IIO Internal Error is [arg3]. Please check error logs for additional downstream device error data.	Error
FQXSFIO0035M	An Uncorrectable PCIe Error has Occurred at Segment 0x[arg1] Bus 0x[arg2] Device 0x[arg3] Function 0x[arg4]. The Vendor ID for the device is 0x[arg5] and the Device ID is 0x[arg6]. The physical [arg7] number is [arg8].	Error
FQXSFMA0001M	DIMM [arg1] has been disabled due to an error detected during POST. [arg2]	Error

Table 3. Events organized by severity (continued)

Event ID	Message String	Severity
FQXSFMA0002M	An uncorrectable memory error has been detected on DIMM [arg1] at address [arg2]. [arg3]	Error
FQXSFMA0004N	No system memory has been detected.	Error
FQXSFMA0008M	DIMM [arg1] has failed the POST memory test. [arg2]	Error
FQXSFMA0009K	Invalid memory configuration for Mirror Mode. Please correct memory configuration.	Error
FQXSFMA0027K	Invalid memory configuration (Unsupported DIMM Population) detected. Please verify memory configuration is valid.	Error
FQXSFMA0056M	An uncorrected recoverable memory error has been detected on DIMM [arg1] at address [arg2].[arg3] [arg4]	Error
FQXSFMA0066M	Memory address parity error occurred on CPU [arg1] channel [arg2] with DIMM [arg3].	Error
FQXSFMA0077N	SMBus failure encountered when accessing to the SPD of DIMM [arg1].	Error
FQXSFMA0078N	System encountered fatal error [arg1] during memory initialization.	Error
FQXSFMA0082M	An uncorrected recoverable memory error has been detected on DIMM [arg1] and post package repair (PPR) recorded.	Error
FQXSFMA0083M	An uncorrected recoverable memory error has been detected on DIMM [arg1] and post package repair (PPR) recording failed.	Error
FQXSFMA0099M	An uncorrected recoverable memory error has been detected on CMM Bay [arg1] at [arg2].	Error
FQXSFPU0016N	A processor within the system has failed the BIST.	Error
FQXSFPU0018N	CATERR(IERR) has asserted on processor [arg1].	Error
FQXSFPU0019N	An uncorrectable error has been detected on processor [arg1].	Error
FQXSFPU0027N	System uncorrectable error has occurred on Processor [arg1] Core [arg2] MC bank [arg3] with MC Status [arg4], MC Address [arg5], and MC Misc [arg6].	Error
FQXSFPU0030N	A firmware fault has been detected in the UEFI image.	Error
FQXSFPU0031N	The number of POST attempts has reached the value configured in F1 setup.The system has booted with default UEFI settings. User specified settings have been preserved and will be used on subsequent boots unless modified before rebooting.	Error
FQXSFPU0035N	A 3-strike timeout has occurred on processor [arg1].	Error
FQXSFPU4056M	TPM card is changed, need install back the original TPM card which shipped with the system.	Error
FQXSFSM0008M	Boot permission timeout detected.	Error

List of UEFI events

This section lists all messages that can be sent from UEFI.

- **FQXSFIO0005I: An intra-board UPI has been disabled on the link between processor [arg1] port [arg2] and processor [arg3]port [arg4] because of UPI topology downgrade.**

  This message is used to report UPI failure.

  Severity: Info

  Parameters:

  [arg1] Socket number, 1-based

  [arg2] Port Number

  [arg3] Socket number, 1-based

  [arg4] Port Number

  User Action:

  Complete the following steps:

  1. This event should be followed by a recent FQXSFIO0005M / FQXSFIO0006M event denoting some UPI links failure which caused UPI topology downgrade.
  2. Solve the event FQXSFIO0005M / FQXSFIO0006M at first, then this event should be solved automatically.
  3. If no recent or after fixing FQXSFIO0005M / FQXSFIO0006M event, this event still persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFIO0005M: An intra-board UPI failure has been detected on the link between processor [arg1] port [arg2] and processor [arg3] port [arg4].**

  This message is used to report UPI failure.

  Severity: Error

  Parameters:

  [arg1] Socket number, 1-based

  [arg2] Port Number

  [arg3] Socket number, 1-based

  [arg4] Port Number

  User Action:

  Complete the following steps:

  1. Power off the system and remove A/C power.
  2. Restore A/C power and power on the system.
  3. If the problem persists, collect Service Data logs and contact Lenovo Support.

     Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key.

- **FQXSFIO0006I: An inter-board UPI has been disabled on the link between processor [arg1] port [arg2] and processor [arg3]port [arg4] because of UPI topology downgrade.**

  This message is used to report UPI failure.

  Severity: Info

  Parameters:

[arg1] Socket number, 1-based

[arg2] Port Number

[arg3] Socket number, 1-based

[arg4] Port Number

User Action:

Complete the following steps:

1. This event should be followed by a recent FQXSFIO0005M / FQXSFIO0006M event denoting some UPI links failure which caused UPI topology downgrade.
2. Solve the event FQXSFIO0005M / FQXSFIO0006M at first, then this event should be solved automatically.
3. If no recent or after fixing FQXSFIO0005M / FQXSFIO0006M event, this event still persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFIO0006M: An inter-board UPI failure has been detected on the link between processor [arg1] port [arg2] and processor [arg3] port [arg4].**

  This message is used to report UPI failure.

  Severity: Error

  Parameters:

  [arg1] Socket number, 1-based

  [arg2] Port Number

  [arg3] Socket number, 1-based

  [arg4] Port Number

  User Action:

  Complete the following steps:

  1. Power off the system and remove A/C power.
  2. Restore A/C power and power on the system.
  3. If the problem persists, collect Service Data logs and contact Lenovo Support.

     Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key.

- **FQXSFIO0008M: An intra-board UPI dynamic link width reduction has been detected on the link between processor [arg1] port [arg2] and processor [arg3] port [arg4].**

  This message is used to report UPI dynamic link width reduction.

  Severity: Warning

  Parameters:

  [arg1] Socket number, 1-based

  [arg2] Port Number

  [arg3] Socket number, 1-based

  [arg4] Port Number

  User Action:

Complete the following steps:

1. Power off the system and remove A/C power.
2. Restore A/C power and power on the system.
3. If the problem persists, collect Service Data logs and contact Lenovo Support.

   Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key.

- **FQXSFIO0009M: An inter-board UPI dynamic link width reduction has been detected on the link between processor [arg1] port [arg2] and processor [arg3] port [arg4].**

  This message is used to report UPI dynamic link width reduction.

  Severity: Warning

  Parameters:

  [arg1] Socket number, 1-based

  [arg2] Port Number

  [arg3] Socket number, 1-based

  [arg4] Port Number

  User Action:

  Complete the following steps:

  1. Power off the system and remove A/C power.
  2. Restore A/C power and power on the system.
  3. If the problem persists, collect Service Data logs and contact Lenovo Support.

     Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key.

- **FQXSFIO0013M: New added PCI device(s) at [arg1] triggered [arg2] out of resource.**

  This message is reported when PCI resources are insufficient.

  Severity: Error

  Parameters:

  [arg1] String, dynamic string to mention potential PCIe slot(s) or NVMe drive bay(s). i.e. Slot(Bay) 1/2/4/5… etc.

  [arg2] Bus /Legacy IO / 32-bit MMIO / 64-bit MMIO

  User Action:

  Complete the following steps:

  1. If resource insufficient is 32-bit MMIO, change System Settings->Devices and I/O Ports->MM Config Base to a lower value such as from 3GB to 2GB or 2GB to 1GB.
  2. If resource insufficient is 64-bit MMIO, change the following settings to disable these two features if not needed. System Settings->Devices and I/O Ports-> SRIOV (or Resizable BAR) to disabled.
  3. Check Lenovo Support site for any applicable service bulletin or UEFI or adapter firmware update that applies to this error.
  4. If the problem persists, remove new added devices from system slots or disable them.
  5. If do need to enable all new added devices, collect Service Data logs, and contact Lenovo Support.

- **FQXSFIO0021I: PCIe DPC software triggering occurred in physical [arg1] number [arg2].**

  This message is reported when PCIE DPC software was triggered.

  Severity: Info

  Parameters:

  [arg1] Slot/bay

  [arg2] Slot number /bay number

  User Action:

  Information only; no action is required.

- **FQXSFIO0021J: PCIe Error Recovery has occurred in physical [arg1] number [arg2]. The [arg3] may not operate correctly.**

  This message is reported when PCIe error was recovered.

  Severity: Warning

  Parameters:

  [arg1] Slot/bay

  [arg2] Instance number

  [arg3] Adapter/disk

  User Action:

  Complete the following steps:

  1. Check the log for a separate error related to an associated PCIe device or NVME disk 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. Check the system spec to make sure that the PCIe device or NVME disk is installed in the compatible PCIe slot or bay and a compatible cable is used. If not, performance of this device might be impacted.
  4. If the problem persists, collect Service Data logs and contact Lenovo Support.

     Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key.

- **FQXSFIO0022J: PCIe Link Width has degraded from [arg1] to [arg2] in physical [arg3] number [arg4].**

  This message is reported when PCIe Link Width was degraded.

  Severity: Warning

  Parameters:

  [arg1] x16/x8/x4/x2/x1

  [arg2] x16/x8/x4/x2/x1

  [arg3] Slot/bay

  [arg4] Instance number

  User Action:

Complete the following steps:

1. Check the log for a separate error related to an associated PCIe device or NVME disk 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. Check the system spec to make sure that the PCIe device or NVME disk is installed in the compatible PCIe slot or bay and a compatible cable is used. If not, performance of this device might be impacted.
4. If the problem persists, collect Service Data logs and contact Lenovo Support.

   Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key.

- **FQXSFIO0023J: PCIe Link Speed has degraded from [arg1] to [arg2] in physical [arg3] number [arg4].**

  This message is reported when PCIe Link Speed was degraded.

  Severity: Warning

  Parameters:

  [arg1] 32 GT/s / 16 GT/s / 8.0 GT/s / 5.0 GT/s / 2.5 GT/s

  [arg2] 32 GT/s / 16 GT/s / 8.0 GT/s / 5.0 GT/s / 2.5 GT/s

  [arg3] Slot/bay

  [arg4] Instance number

  User Action:

  Complete the following steps:

  1. Check the log for a separate error related to an associated PCIe device or NVME disk 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. Check the system spec to make sure that the PCIe device or NVME disk is installed in the compatible PCIe slot or bay and a compatible cable is used. If not, performance of this device might be impacted.
  4. If the problem persists, collect Service Data logs and contact Lenovo Support.

     Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key.

- **FQXSFIO0024I: An error has been detected by the IEH on processor [arg1]. The type of IEH is [arg2]. The index of the IEH is [arg3]. The value of IehErrorStatus register is [arg4]. Please check error logs for additional downstream device error data.**

  This message is reported when an error has been detected by the IEH.

  Severity: Warning

  Parameters:

  [arg1] Processor number, 1 - based

  [arg2] IEH type

  [arg3] IEH index

[arg4] IehErrorStatus register value

User Action:

Complete the following steps:

1. Check Lenovo Support site for an applicable service bulletin or firmware update for the system or adapter that applies to this error.
2. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFIO0024M: An error has been detected by the IEH on processor [arg1]. The type of IEH is [arg2]. The index of the IEH is [arg3]. The value of IehErrorStatus register is [arg4]. Please check error logs for additional downstream device error data.**

  This message is reported when an error has been detected by the IEH.

  Severity: Error

  Parameters:

  [arg1] Processor number, 1 - based

  [arg2] IEH type

  [arg3] IEH index

  [arg4] IehErrorStatus register value

  User Action:

  Complete the following steps:

  1. Check Lenovo Support site for an applicable service bulletin or firmware update for the system or adapter that applies to this error.
  2. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFIO0025I: An error has been detected by the IIO on processor [arg1]. The index of the IIO stack is [arg2]. The type of IIO Internal Error is [arg3]. Please check error logs for additional downstream device error data.**

  This message is reported when an error has been detected by the IIO.

  Severity: Warning

  Parameters:

  [arg1] Processor number, 1 - based

  [arg2] IIO stack index

  [arg3] VTD error / CBDMA error / M2PCIE error / IRP error / Ring error / ITC error /OTC error

  User Action:

  Complete the following steps:

  1. Check Lenovo Support site for an applicable service bulletin or firmware update for the system or adapter that applies to this error.
  2. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFIO0025M: An error has been detected by the IIO on processor [arg1]. The index of the IIO stack is [arg2]. The type of IIO Internal Error is [arg3]. Please check error logs for additional downstream device error data.**

  This message is reported when an error has been detected by the IIO.

Severity: Error

Parameters:

[arg1] Processor number, 1 - based

[arg2] IIO stack index

[arg3] VTD error / CBDMA error / M2PCIE error / IRP error / Ring error / ITC error /OTC error

User Action:

Complete the following steps:

1. Check Lenovo Support site for an applicable service bulletin or firmware update for the system or adapter that applies to this error.
2. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFIO0035M: An Uncorrectable PCIe Error has Occurred at Segment 0x[arg1] Bus 0x[arg2] Device 0x[arg3] Function 0x[arg4]. The Vendor ID for the device is 0x[arg5] and the Device ID is 0x [arg6]. The physical [arg7] number is [arg8].**

  This message is reported when an uncorrectable PCIe Error has occurred at PCIE device.

  Severity: Error

  Parameters:

  [arg1] Segment

  [arg2] Bus

  [arg3] Device

  [arg4] Function

  [arg5] VID

  [arg6] DID

  [arg7] Slot/Bay

  [arg8] Instance number

  User Action:

  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 device and/or any attached cables were recently installed, moved, serviced or upgraded.
     a. Reseat adapter or disk 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 OneCLI utility.
     d. If a PCIe error has also been reported on a second slot within the same node, ensure steps a, b, and c above are also performed for that adapter or disk before proceeding.
  3. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFIO0036G: PCIe Correctable Error Threshold limit has been exceeded at Segment 0x[arg1] Bus 0x[arg2] Device 0x[arg3] Function 0x[arg4]. The Vendor ID for the device is 0x[arg5] and the Device ID is 0x[arg6]. The physical [arg7] number is [arg8].**

  This message is reported when PCIe Correctable Error Threshold limit has been exceeded at PCIE device.

  Severity: Warning

  Parameters:

  [arg1] Segment

  [arg2] Bus

  [arg3] Device

  [arg4] Function

  [arg5] VID

  [arg6] DID

  [arg7] Slot/Bay

  [arg8] Instance number

  User Action:

  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 device and/or any attached cables were recently installed, moved, serviced or upgraded.
     a. Reseat adapter or disk and any attached cables.
     b. Reload Device Driver.
     c. If device is not recognized, reconfiguring slot to lower speed may be required. Gen1/Gen2/Gen3 settings can be configured via F1 Setup -> System Settings -> Devices and I/O Ports ->PCIe Gen1/Gen2/Gen3/Gen4 Speed Selection, or the OneCLI utility.
     d. If a PCIe error has also been reported on a second slot within the same node, please ensure steps a, b, and c above are also performed for that adapter or disk before proceeding.
  3. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFIO0041J: PCIe Leaky Bucket Event : [arg1] occurred at Segment [arg2] Bus [arg3] Device [arg4] Function [arg5]. The physical [arg6] number is [arg7].**

  This message is reported when PCIe Leaky Bucket Event has occurred at PCIE device.

  Severity: Warning

  Parameters:

  [arg1] PCIe Leaky Bucket Event

  [arg2] Segment

  [arg3] Bus

  [arg4] Device

  [arg5] Function

  [arg6] Slot/Bay

[arg7] Instance number

User Action:

Complete the following steps:

1. Check the log for a separate error related to an associated PCIe device or NVME disk 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. Check the system spec to make sure that the PCIe device or NVME disk is installed in the compatible PCIe slot or bay and a compatible cable is used. If not, performance of this device might be impacted.
4. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0001I: DIMM [arg1] Disable has been recovered. [arg2]**

This message is reported when a DIMM has been re-enabled.

Severity: Info

Parameters:

[arg1] DIMM slot silk label

[arg2] DIMM identifier consists of S/N, FRU and UDI, e.g., "739E68ED-VC10 FRU 0123456"

User Action:

Information only; no action is required.

- **FQXSFMA0001M: DIMM [arg1] has been disabled due to an error detected during POST. [arg2]**

This message is reported when a DIMM has been disabled.

Severity: Error

Parameters:

[arg1] DIMM slot silk label

[arg2] DIMM identifier consists of S/N, FRU and UDI, e.g., "739E68ED-VC10 FRU 0123456"

User Action:

Complete the following steps:

1. Search for other event messages pointing to the same DIMM, and if exist, prioritize resolving them at first.
2. Reseat the affected DIMM.
3. Boot to UEFI setup and try to enable DIMM via System Settings->Memory->System Memory Details page (if applicable) and reboot the system to see if the DIMM could be re-enabled successfully.
4. If the problem persists, update UEFI firmware to the latest version. 5. If the problem persists, collect Service Data logs and contact Lenovo Support. Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key.",

   Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key.

- **FQXSFMA0002M: An uncorrectable memory error has been detected on DIMM [arg1] at address [arg2]. [arg3]**

This message is reported when an uncorrectable memory error state has been cleared.

Severity: Error

Parameters:

[arg1] DIMM Silk Label, 1-based

[arg2] Address of the system where the error occurred

[arg3] DIMM identifier consists of S/N, FRU and UDI, e.g., "739E68ED-VC10 FRU 0123456"

User Action:

Complete the following steps:

1. Check Lenovo Support site for an applicable service bulletin or firmware update that applies to this memory error.
2. Reseat the affected DIMM (Note: The event Log might contain a recent FQXSFMA0011I event denoting detected change in DIMM population that could be related to this problem.)
3. Swap the affected DIMM to another known good slot and verify whether the issue still be observed or not.
4. If the problem persists, collect Service Data logs and contact Lenovo Support.

   Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key.

- **FQXSFMA0004N: No system memory has been detected.**

  This message is reported when no memory detected.

  Severity: Error

  User Action:

  Complete the following steps:

  1. Ensure one or more supported DIMMs are installed in the correct population sequence.
  2. If the system has light-path then check for any lit DIMM-connector LEDs, and if found, reseat those DIMMs. Alternatively (i.e., if light path is not available) the same can be accomplished using XCC GUI.
  3. Swap DIMMs between slots when more than one DIMM is available in the system.
  4. If the DIMMs have been upgraded just prior to the issue than update uEFI using alternate or minimal configuration.
  5. If the problem persists, collect Service Data logs and contact Lenovo Support.

     Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key.

- **FQXSFMA0006I: [arg1] DIMM [arg2] has been detected, the DIMM serial number is [arg3].**

  This message is reported when DIMM has invalid UDI.

  Severity: Info

  Parameters:

  [arg1] Unqualified/Non Lenovo

  [arg2] DIMM Silk Label, 1-based

  [arg3] DIMM serial number.

  User Action:

Complete the following steps:

1. If this information event is logged in the XCC event log, the server does have unqualified 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. 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 ensure this informational event is not logged again.
6. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0007I: [arg1] DIMM number [arg2] has been replaced. [arg3]**

  This message is reported when DIMM has been programmed correct UDI.

  Severity: Info

  Parameters:

  [arg1] Unqualified/Non Lenovo

  [arg2] DIMM Silk Label, 1-based

  [arg3] DIMM info (S/N, FRU and UDI.), e.g., "739E68ED-VC10 FRU 0123456"

  User Action:

  Complete the following steps:

  1. This event should be followed by a recent FQXSFMA0006I event denoting the server does have unqualified memory installed.
  2. Information only; no action is required.

- **FQXSFMA0008I: DIMM [arg1] POST memory test failure has been recovered. [arg2]**

  This message is reported when DIMM has been recovered from training error.

  Severity: Info

  Parameters:

  [arg1] DIMM slot silk label

  [arg2] DIMM identifier consists of S/N, FRU and UDI, e.g., "739E68ED-VC10 FRU 0123456"

  User Action:

  Information only; no action is required.

- **FQXSFMA0008M: DIMM [arg1] has failed the POST memory test. [arg2]**

  This message is reported when DIMM has been disabled by training error.

  Severity: Error

  Parameters:

  [arg1] DIMM slot silk label

  [arg2] DIMM identifier consists of S/N, FRU and UDI, e.g., "739E68ED-VC10 FRU 0123456"

  User Action:

  Complete the following steps:

1. If the DIMM configuration was changed prior to this failure verify that the DIMMs are installed in the correct population sequence.
2. RESEAT the DIMM that failed POST memory test and the DIMMs on adjacent slots if populated. Boot to F1 setup and enable the DIMM. Reboot the system.
3. Swap the DIMM from failure location to another known good location to see if the failure follow the DIMM or DIMM slot.
4. If this problem was encountered during an XCC / UEFI update process:
   a. Power cycle the system by removing power for a few seconds.
   b. Clear CMOS settings by removing battery for a few seconds.
5. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0009I: Invalid memory configuration for Mirror Mode has been recovered.**

  This message is reported when Mirror mode is applied successfully.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXSFMA0009K: Invalid memory configuration for Mirror Mode. Please correct memory configuration.**

  This message is reported when Mirror mode failed to be applied with current configuration.

  Severity: Error

  User Action:

  Complete the following steps:

  1. Ensure that all the DIMMs are enabled and functional by booting to F1 Setup or in XCC web .If any DIMMs are non-functional address that first.
  2. Make sure that the DIMM connectors are correctly populated for mirroring mode, according to the service information for this product.
  3. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0026G: Multi-bit CE occurred on DIMM [arg1], need to restart the system for DIMM Self-healing to attempt post package repair (PPR).[arg2]**

  This message is reported when the error of the same row has already occurred a number of times up to the row threshold.

  Severity: Warning

  Parameters:

  [arg1] DIMM Silk Label, 1-based

  [arg2] DIMM info (S/N, FRU and UDI.), e.g. "739E68ED-VC10 FRU 0123456"

  User Action:

  Complete the following steps:

  1. Restart the system to allow for DIMM Self-healing to attempt hard post package repair (PPR) and confirm that event ID FQXSFMA0026I was recorded.
  2. If the problem persists or if PPR attempt failed due to event ID FQXSFMA0027M or FQXSFMA0028M, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0026I: DIMM [arg1] Self-healing, attempt post-package repair (PPR) succeeded. [arg2]**

This message is reported when DIMM attempt post-package repair (PPR) succeeded.

Severity: Info

Parameters:

[arg1] DIMM Silk Label, 1-based

[arg2] DIMM info (S/N, FRU and UDI.), e.g. "739E68ED-VC10 FRU 0123456"

User Action:

Complete the following steps:

1. Information only; no action is required.
2. Note: Post Package Repair (PPR) – is the memory Self-Healing process of substituting the access to a bad cell or address row with a spare row within the DRAM device.
   a. Soft Post Package Repair (sPPR) - repairs a row for the current boot cycle. If system power is removed or the system is rebooted (reset), the DIMM reverts to its original state.
   b. Hard Post Package Repair (hPPR) – permanently repairs a row.

- **FQXSFMA0027G: Multi-bit CE occurred on DIMM [arg1] different rows.[arg2]**

This message is reported when the error of the same bank has already occurred a number of times up to the bank threshold.

Severity: Warning

Parameters:

[arg1] DIMM Silk Label, 1-based

[arg2] DIMM info (S/N, FRU and UDI.), e.g. "739E68ED-VC10 FRU 0123456"

User Action:

Complete the following steps:

1. Run advance memory test using the XClarity Provisioning Manager. Click Diagnostics > Run Diagnostics > Memory Test > Advanced Memory Test to repair the DIMM.
2. Reseat the failing DIMM identified by LightPath and/or event log entry.
3. If the problem persists, collect Service Data logs, and contact Lenovo Support.

- **FQXSFMA0027I: Invalid memory configuration (unsupported DIMM Population) recovered.**

The SEL is reported when all DIMM recovered form POR errors.

Severity: Info

User Action:

Information only; no action is required.

- **FQXSFMA0027K: Invalid memory configuration (Unsupported DIMM Population) detected. Please verify memory configuration is valid.**

This message is reported when unsupported DIMM population is detected.

Severity: Error

User Action:

Complete the following steps:

1. This event could follow an uncorrectable memory error or failed memory test. Check the log and resolve that event first. DIMMs disabled by other errors or actions could cause this event.

2. Ensure that the DIMMs are populated in the correct sequence, according to the service information for this product.
3. If the DIMMs are present and properly installed, check for any lit DIMM connector error LEDs and reseat those DIMMs. Check logs for memory diagnostic codes.
4. Reset UEFI to the default settings.
5. If the problem persists, update the UEFI firmware.
6. If the problem persists, collect Service Data logs and contact Lenovo Support.

Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key.

- **FQXSFMA0027M: DIMM [arg1] Self-healing, attempt post-package repair (PPR) failed. [arg2]**

  This message is reported when DIMM failed to attempt post-package repair (PPR).

  Severity: Warning

  Parameters:

  [arg1] DIMM Silk Label, 1-based

  [arg2] DIMM identifier consists of S/N, FRU and UDI, e.g. "739E68ED-VC10 FRU 0123456"

  User Action:

  Collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0028M: The number of post-package repair (PPR) attempts has reached the limit on DIMM [arg1]. [arg2]**

  This message is reported when the count of post-package repair (PPR) attempt exceeded DIMM level threshold.

  Severity: Warning

  Parameters:

  [arg1] DIMM Silk Label, 1-based

  [arg2] DIMM identifier consists of S/N, FRU and UDI, e.g. "739E68ED-VC10 FRU 0123456"

  User Action:

  Collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0029G: DIMM [arg1] Self-healing, attempt post-package repair (PPR) failed: Spare rows for repair are out of resource. [arg2]**

  This message is reported when DIMM failed to attempt post-package repair (PPR) due to Insufficient rows.

  Severity: Warning

  Parameters:

  [arg1] DIMM Silk Label, 1-based

  [arg2] DIMM info (S/N, FRU and UDI.), e.g. "739E68ED-VC10 FRU 0123456"

  User Action:

  Collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0029I: The PFA of DIMM [arg1] has been deasserted after applying PPR for this DIMM. [arg2]**

This message is reported to deassert the PFA sensor of the DIMM repaired by PPR.

Severity: Info

Parameters:

[arg1] DIMM Silk Label, 1-based

[arg2] DIMM info (S/N, FRU and UDI.), e.g. "739E68ED-VC10 FRU 0123456"

User Action:

Information only; no action is required.

- **FQXSFMA0047M: SPD CRC checking failed on DIMM [arg1]. [arg2]**

  This message is reported when DIMM SPD CRC check failed.

  Severity: Warning

  Parameters:

  [arg1] DIMM Silk Label, 1-based

  [arg2] DIMM info (S/N, FRU and UDI.), e.g. "739E68ED-VC10 FRU 0123456"

  User Action:

  Complete the following steps:

  1. Perform a virtual reseat or AC cycle the server.
  2. If the problem persists, collect Service Data logs and contact Lenovo Support.

     Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key.

- **FQXSFMA0048M: DIMM [arg1] disabled due to PMIC failure during POST, DIMM identifier is [arg2].**

  This message is reported when Error logged in PMIC registers.

  Severity: Warning

  Parameters:

  [arg1] Disabled DIMM

  [arg2] DIMM info (S/N, FRU and UDI.), e.g. "739E68ED-VC10 FRU 0123456"

  User Action:

  Complete the following steps:

  1. Power off the system and remove A/C power.
  2. Reseat the DIMM in the slot specified by the event message.
  3. Restore A/C power and power on the system.
  4. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0049M: DIMM [arg1] disabled due to memory module power failure. DIMM [arg2] detected and good, DIMM [arg3] not detected.**

  This message is reported when DDRIO power failure detected.

  Severity: Warning

  Parameters:

  [arg1] Disabled slot

[arg2] Disabled but detected DIMMs

[arg3] Disabled but not detected DIMMs e.g. “DIMM 1,2 disabled due to memory module power failure. DIMM 2 detected and good, DIMM 1 not detected.”

User Action:

Complete the following steps:

1. Power off the system and remove A/C power.
2. Check DIMM slots specified in the message. If DIMM installed but undetected, remove it and then restore the A/C power and power on the system.
3. If all DIMMs detected or error persists after removing undetected DIMMs, reseat all the DIMMs in the slots specified by the message and then restore the A/C power and power on the system.
4. If the problem persists or undetected DIMM needs to be replaced, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0050G: DRAM PFA threshold limit exceeded on DIMM [arg1] sub-channel [arg2] Rank [arg3] DRAM [arg4], DIMM identifier is [arg5].**

  This message is reported when DIMM has a lot of single bit ECC error.

  Severity: Warning

  Parameters:

  [arg1] DIMM Silk Label

  [arg2] Sub Channel

  [arg3] Rank number

  [arg4] Device number (0&1&2)

  [arg5] DIMM info (S/N, FRU and UDI.), e.g. "739E68ED-VC10 FRU 0123456"

  User Action:

  Complete the following steps:

  1. Power off the system and remove the A/C power.
  2. Reseat the affected DIMM.
  3. Restore the A/C power and power on the system.
  4. Check Lenovo Support site for an applicable service bulletin or firmware update that applies to this memory error.
  5. Run advance memory test using the XClarity Provisioning Manager. Click Diagnostics > Run Diagnostics > Memory Test > Advanced Memory Test to repair the DIMM.
  6. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0052I: DIMM [arg1] has been disabled due to the error on DIMM [arg2].[arg3]**

  This message is reported when DDRIO power failure detected.

  Severity: Info

  Parameters:

  [arg1] DIMM Silk Label, 1-based

  [arg2] DIMM Silk Label, 1-based

  [arg3] DIMM info (S/N, FRU and UDI.), e.g. "739E68ED-VC10 FRU 0123456"

User Action:

Complete the following steps:

1. Power off the system and remove A/C power.
2. Reseat the DIMM in the slot specified by the event message.
3. Restore A/C power and power on the system.
4. If the problem persists, collect Service Data logs and contact Lenovo Support.

Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key.

- **FQXSFMA0053G: An uncorrected memory error has been recovered by mirror on DIMM [arg1] at address [arg2].[arg3]**

This message is reported when an uncorrected memory error has been recovered by mirror.

Severity: Warning

Parameters:

[arg1] DIMM Silk Label, 1-based

[arg2] Address of the system where the error occurred

[arg3] DIMM identifier consists of S/N, FRU and UDI, e.g. "739E68ED-VC10 FRU 0123456"

User Action:

Complete the following steps:

1. Keep the system running until next planned maintenance window.
2. During planned maintenance, power off the system and remove A/C power.
3. Reseat the failing DIMM identified by LightPath and/or event log entry.
4. Restore A/C power and power on the system.
5. Check Lenovo Support site for an applicable service bulletin or firmware update that applies to this memory error.
6. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0053I: DIMM [arg1] re-enabled due to memory module combination updating.**

This message is reported when DIMM recovered from population downgrade error.

Severity: Info

Parameters:

[arg1] DIMM Silk Label list. (eg1. 1 2. 1 & 2 & 3).

User Action:

Information only; no action is required.

- **FQXSFMA0053M: DIMM [arg1] not defective but disabled due to unsupported memory module combination on CPU [arg2].**

This message is reported when DIMM disabled due to population downgrade.

Severity: Warning

Parameters:

[arg1] DIMM Silk Label list. (eg1. 1 2. 1 & 2 & 3).

[arg2] CPU label

User Action:

Complete the following steps:

1. This event could follow an uncorrectable memory error or failed memory test. Check the log and resolve that event first. DIMMs disabled by other errors or actions could cause this event.
2. Ensure that the DIMM are populated in the correct sequence, according to the service information for this product.
3. If DIMMs are present and properly installed, check for any lit DIMM connector error LEDs, and if found, reseat those DIMMs, then check logs for memory diagnostic codes.
4. Reset UEFI to default settings.
5. If the problem persists, update UEFI firmware.
6. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0054G: Mirror failover operation was successful. DIMM [arg1] has failed over to the mirrored DIMM [arg2].[arg3]**

  This message is reported when the persistent UE occurred in the DIMM that triggered Mirror failover.

  Severity: Warning

  Parameters:

  [arg1] DIMM Silk Label, 1-based

  [arg2] DIMM Silk Label, 1-based

  [arg3] DIMM identifier consists of S/N, FRU and UDI, e.g. "739E68ED-VC10 FRU 0123456"

  User Action:

  Complete the following steps:

  1. Keep the system running until next planned maintenance window.
  2. During planned maintenance, power off the system and remove A/C power.
  3. Reseat the failing DIMM identified by LightPath and/or event log entry.
  4. Restore A/C power and power on the system.
  5. Check Lenovo Support site for an applicable service bulletin or firmware update that applies to this memory error.
  6. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0055G: Mirror failover operation is skipped and page retire for uncorrectable error (at [arg1]) on DIMM [arg2] is reported to OS. [arg3]**

  This message is reported when the persistent UE occurred in the DIMM that triggered Mirror failover.

  Severity: Warning

  Parameters:

  [arg1] Physical address

  [arg2] DIMM Silk Label, 1-based

  [arg3] DIMM identifier consists of S/N, FRU and UDI, e.g. "739E68ED-VC10 FRU 0123456"

  User Action:

  Complete the following steps:

1. Power off the system and remove A/C power.
2. Reseat the failing DIMM identified by LightPath and/or event log entry.
3. Restore A/C power and power on the system.
4. Check Lenovo Support site for an applicable service bulletin or firmware update that applies to this memory error.
5. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0056I: Uncorrected memory error occurred on DIMM [arg1] has been deasserted after performing post package repair. DIMM identifier is [arg2].**

  This message is reported when an uncorrected recoverable memory error has been recovered.

  Severity: Info

  Parameters:

  [arg1] DIMM Silk Label

  [arg2] DIMM info (S/N, FRU and UDI.), e.g. "739E68ED-VC10 FRU 0123456"

  User Action:

  Information only; no action is required.

- **FQXSFMA0056M: An uncorrected recoverable memory error has been detected on DIMM [arg1] at address [arg2].[arg3] [arg4]**

  This message is reported when an uncorrected recoverable memory error has been detected.

  Severity: Error

  Parameters:

  [arg1] DIMM Silk Label, 1-based

  [arg2] Address of the system where the error occurred

  [arg3] DIMM identifier consists of S/N, FRU and UDI, e.g. "739E68ED-VC10 FRU 0123456"

  [arg4] Indicate the error is UCNA or SRAR, "-T0" for UCNA, "-T1" for SRAR

  User Action:

  1. Power off the system and remove A/C power.
  2. Reseat the failing DIMM identified by LightPath and/or event log entry
  3. Restore A/C power and power on the system.
  4. Check Lenovo Support site for an applicable service bulletin or firmware update that applies to this memory error.
  5. Run advance memory test using the XClarity Provisioning Manager. Click Diagnostics > Run Diagnostics > Memory Test > Advanced Memory Test to repair the DIMM.
  6. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0057G: Page Retire PFA Threshold limit exceeded on DIMM [arg1] at address [arg2]. [arg3] [arg4]**

  This message is reported when PFA threshold limit exceeded.

  Severity: Warning

  Parameters:

  [arg1] DIMM Silk Label, 1-based

[arg2] Address of the system where error occurred

[arg3] Page retire PFA policy reached, "-T0";"-T1";"-T2";"-T3";"-T4".

[arg4] DIMM info (S/N, FRU and UDI.), e.g. "739E68ED-VC10 FRU 0123456"

User Action:

Complete the following steps:

1. Power off the system and remove the A/C power.
2. Reseat the affected DIMM.
3. Restore the A/C power and power on the system.
4. Check Lenovo support site for an applicable service bulletin or firmware update that applies to this memory error.
5. Run advance memory test using the XClarity Provisioning Manager. Click Diagnostics > Run Diagnostics > Memory Test > Advanced Memory Test to repair the DIMM.
6. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0063I: A correctable memory error handled by ADDDC on DIMM [arg1]. DIMM identifier is [arg2].**

  This message is reported when a correctable memory error was handled by ADDDC.

  Severity: Info

  Parameters:

  [arg1] DIMM Silk Label

  [arg2] DIMM info (S/N, FRU and UDI.), e.g. "739E68ED-VC10 FRU 0123456"

  User Action:

  Information only; no action is required.

- **FQXSFMA0064M: DIMM [arg1] disabled due to memory module power failure. DIMM [arg2] detected and good.**

  This message is reported when DDRIO power failure detected.

  Severity: Warning

  Parameters:

  [arg1] Disabled slot

  [arg2] Disabled but detected DIMMs e.g. “DIMM 3,4 disabled due to memory module power failure. DIMM 3,4 detected and good.”

  User Action:

  Complete the following steps:

  1. Power off the system and remove A/C power.
  2. Check DIMM slots specified in the message. If DIMM installed but undetected, remove it and then restore the A/C power and power on the system.
  3. If all DIMMs detected or error persists after removing undetected DIMMs, reseat all the DIMMs in the slots specified by the message and then restore the A/C power and power on the system.
  4. If the problem persists or undetected DIMM needs to be replaced, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0065I: Multi-bit CE of DIMM [arg1] has been deasserted after performing post package repair. DIMM identifier is [arg2].**

  This message is reported when PPR is applied successfully.

  Severity: Info

  Parameters:

  [arg1] DIMM Silk Label

  [arg2] DIMM info (S/N, FRU and UDI)

  User Action:

  Information only; no action is required.

- **FQXSFMA0066M: Memory address parity error occurred on CPU [arg1] channel [arg2] with DIMM [arg3].**

  This message is reported when DDR parity link error occurred.

  Severity: Error

  Parameters:

  [arg1] Socket number, 1-based

  [arg2] Channel on socket

  [arg3] DIMM silk label 1, silk label 2 (All DIMMs on the failed channel)

  User Action:

  Complete the following steps:

  1. Power off the system and remove A/C power.
  2. Reseat the DIMMs specified by the event message.
  3. Restore A/C power and power on the system.
  4. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0067G: Errors per row counter threshold limit exceeded on DIMM [arg1] sub-channel [arg2] Rank [arg3] DRAM [arg4], need to restart the system for DIMM Self-healing to attempt post package repair (PPR), DIMM identifier is [arg5].**

  This message is reported when a row has a lot of single bit error on DIMM.

  Severity: Warning

  Parameters:

  [arg1] DIMM Silk Label

  [arg2] Sub Channel

  [arg3] Rank number

  [arg5] DIMM info (S/N, FRU and UDI.), e.g. "739E68ED-VC10 FRU 0123456"

  User Action:

  Complete the following steps:

  1. Restart the system to allow for DIMM Self-healing to attempt hard post package repair (PPR) and confirm that event ID FQXSFMA0026I was recorded.

2. Run advance memory test using the XClarity Provisioning Manager. Click Diagnostics > Run Diagnostics > Memory Test > Advanced Memory Test to repair the DIMM.
3. If the problem persists or if PPR attempt failed due to event ID FQXSFMA0027M or FQXSFMA0028M, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0067I: Errors per row counter threshold limit exceeded on DIMM [arg1] has been deasserted after performing post package repair. DIMM identifier is [arg2].**

  This message is reported when Errors per row counter threshold limit exceeded on DIMM.

  Severity: Info

  Parameters:

  [arg1] DIMM Silk Label

  [arg2] DIMM info (S/N, FRU and UDI.), e.g. "739E68ED-VC10 FRU 0123456"

  User Action:

  Information only; no action is required.

- **FQXSFMA0076M: DIMM [arg1] is not supported, DIMM identifier is [arg2].**

  This message is reported when unsupported DIMM has been detected.

  Severity: Warning

  Parameters:

  [arg1] DIMM slot silk label

  [arg2] DIMM identifier consists of S/N, FRU and UDI, e.g. "739E68ED-VC10 FRU 0123456"

  User Action:

  Complete the following steps:

  1. Power off the system and remove A/C power.
  2. Check User Guide for supported DIMM types and replace the DIMM specified by the message with a supported one.
  3. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0077N: SMBus failure encountered when accessing to the SPD of DIMM [arg1].**

  This message is reported when access DIMM SPD failed cause of SMBUS failure.

  Severity: Error

  Parameters:

  [arg1] DIMM slot silk label

  User Action:

  Complete the following steps:

  1. Power off the system and remove A/C power.
  2. Reseat the DIMM in the slot specified by the event message.
  3. Restore A/C power and power on the system.
  4. If the problem persists, collect support log and contact Lenovo Support.

- **FQXSFMA0078N: System encountered fatal error [arg1] during memory initialization.**

  This message is reported when system encountered fatal error during memory initialization.

Severity: Error

Parameters:

[arg1] Fatal error code, e.g. 0xD802.

User Action:

If you have enabled XCC or LXCA call home, a Lenovo Service personnel will contact you. Otherwise, please collect Debug Log and contact Lenovo Support.

- **FQXSFMA0079I: NVRAM [arg1] corruption detected and recovered.**

  The message is reported when variable/FV header corruption happens.

  Severity: Info

  Parameters:

  [arg1] "header" or "variable"

  User Action:

  Information only; no action is required.

- **FQXSFMA0080I: Runtime soft post package repair succeeded on DIMM [arg1].[arg2]**

  The message is reported when Row Sparing executed successfully.

  Severity: Info

  Parameters:

  [arg1] DIMM slot number

  [arg2] DIMM identifier consists of S/N, FRU and UDI, e.g. "739E68ED-VC10 FRU 0123456"

  User Action:

  Information only; no action is required.

- **FQXSFMA0081M: Runtime soft post package repair failed on DIMM [arg1], need to restart system to attempt boot time post package repair.[arg2]**

  The message is reported when Row Sparing executed unsuccessfully.

  Severity: Warning

  Parameters:

  [arg1] DIMM slot number

  [arg2] DIMM identifier consists of S/N, FRU and UDI, e.g. "739E68ED-VC10 FRU 0123456"

  User Action:

  Complete the following steps:

  1. Restart the system to allow for DIMM Self-healing to attempt hard post package repair (PPR) and confirm that event ID FQXSFMA0026I was recorded.
  2. If the problem persists or if PPR attempt failed due to event ID FQXSFMA0027M or FQXSFMA0028M, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0082M: An uncorrected recoverable memory error has been detected on DIMM [arg1] and post package repair (PPR) recorded.**

  This message is reported when UE PPR is recorded.

  Severity: Error

Parameters:

[arg1] DIMM Silk Label, 1-based

User Action:

Complete the following steps:

1. Restart the system to attempt PPR.
2. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0083M: An uncorrected recoverable memory error has been detected on DIMM [arg1] and post package repair (PPR) recording failed.**

  This message is reported when the recording of UE PPR failed.

  Severity: Error

  Parameters:

  [arg1] DIMM Silk Label, 1-based

  User Action:

  Complete the following steps:

  1. Restart the system to run AMT.
  2. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0094K: CMM device at Bay [arg1] is failed to be active.**

  This message is reported when the CMM device is time-out.

  Severity: Warning

  Parameters:

  [arg1] CMM Bay ID, 0-based

  User Action:

  Complete the following steps:

  1. Re-install the device that has timed out.
  2. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0095K: Current combination of DIMM and CMM devices does not fulfill the requirements of Heterogeneous Interleave.**

  This message is reported when DIMM and CXL memory modules population is not supported in Heterogeneous Interleave mode.

  Severity: Warning

  User Action:

  Complete the following steps:

  1. Check the User Manual for memory module installation rules to ensure that DIMM and CXL memory modules population complies with the Heterogeneous Interleave mode requirements.
  2. Refer to the UEFI Manual for instructions on how to enable Heterogeneous Interleave mode.
  3. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0096I: Memory mode has been recovered to [arg1].**

  This message is reported when the memory mode is recovered to user setting.

Severity: Info

Parameters:

[arg1] The memory mode configured by user.

User Action:

Information only; no action is required.

- **FQXSFMA0096K: Force memory mode from Heterogeneous Interleave to 1LM + Vol.**

  This message is reported when there are any setting conflicts or errors causing Heterogeneous Interleave mode disabled.

  Severity: Warning

  User Action:

  Complete the following steps:

  1. If FQXSFMA0095K exists in the Active Event Log, resolve FQXSFMA0095K first.
  2. If the problem persists, refer to the UEFI Manual for more information on how to enable Heterogeneous Interleave mode.
  3. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0097K: Force memory mode from Flat Memory Mode to 1LM + Vol.**

  This message is reported when there are any setting conflicts or errors causing flat memory mode disabled.

  Severity: Warning

  User Action:

  Complete the following steps:

  1. Check the User Manual for memory module installation rules to ensure that DIMM and CXL memory modules population complies with the Flat Memory mode requirements.
  2. Refer to the UEFI Manual for instructions on how to enable Flat Memory mode.
  3. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFMA0099M: An uncorrected recoverable memory error has been detected on CMM Bay [arg1] at [arg2].**

  This message is reported when an uncorrected recoverable memory error has been detected on the CMM device.

  Severity: Error

  Parameters:

  [arg1] PCIE Slot

  [arg2] System address

  User Action:

  Complete the following steps:

  1. Power off the system and remove A/C power.
  2. Reseat the failing CXL memory module (CMM) which is identified by LED (amber) and/or event log entry.
  3. Restore A/C power and power on the system.

4. If the problem persists, power off the system and remove A/C power.
5. Swap the failing CXL memory module with another CXL memory module.
6. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFPU0016N: A processor within the system has failed the BIST.**

  This message is reported when a processor within the system has failed the BIST.

  Severity: Error

  User Action:

  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. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFPU0018N: CATERR(IERR) has asserted on processor [arg1].**

  This is reported when FEH detects CPU IERR.

  Severity: Error

  Parameters:

  [arg1] Socket number, 1-based

  User Action:

  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. Power off the system and remove A/C power.
  3. Restore A/C power and power on the system.
  4. Determine if there have been recent changes to the hardware, firmware or operating system. Reverse them if possible
  5. If the problem persists, collect Service Data logs and contact Lenovo Support.

     Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key.

- **FQXSFPU0019N: An uncorrectable error has been detected on processor [arg1].**

  This is reported when FEH detects CPU MCERR.

  Severity: Error

  Parameters:

  [arg1] Socket number, 1-based.

  User Action:

  Complete the following steps:

  1. Check Lenovo Support site for an applicable service bulletin or UEFI firmware update that applies to this error.
  2. Power off the system and remove A/C power.
  3. Restore A/C power and power on the system.

4. Determine if there have been recent changes to the hardware, firmware or operating system. Reverse them if possible.
5. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFPU0023G: Secure Boot Image Verification Failure Warning.**

  Reporting un-trusted boot image when Security Boot is enabled.

  Severity: Warning

  User Action:

  Complete the following steps:

  1. It is a security warning message when a user wants to boot from an unauthorized UEFI image or OS while Secure Boot is enabled and Secure Boot Mode is in User Mode. If the customer does not want to boot any unauthorized UEFI image or OS, remove that bootable device.
  2. If the customer does want to boot this unauthorized UEFI image or OS, there are two ways to allow system boot from this unauthorized image, the first is to disable Secure Boot, and the second is to enroll the unauthorized image into DB (Authorized Signature Database).
     a. Disable Secure Boot: assert Physical Presence and then change Secure Boot Setting to Disable (in F1 Setup -> System Settings -> Security -> Security Boot Configuration -> Security Boot Setting).
     b. Enroll the unauthorized UEFI Image. assert the Physical Presence and then change Secure Boot Policy to Custom Policy (in Setup -> System Settings -> Security -> Security Boot Configuration -> Security Boot Policy), then enter into "Security Boot Custom Policy" Menu, press the "Enroll Efi Image" button, select the unauthorized UEFI Image in the popup box.
     c. NOTE: There are two ways to assert Physical Presence:
        1) Switch Physical Presence Jumper to ON;
        2) If the Physical Presence Policy has been set to enabled (F1 Setup -> System Settings -> Security -> Physical Presence Policy Configuration), user is allowed to assert remote Physical Presence via IPMI tool.)
  3. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFPU0025I: The default system settings have been restored.**

  This message is reported when the default system settings have been restored.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXSFPU0027N: System uncorrectable error has occurred on Processor [arg1] Core [arg2] MC bank [arg3] with MC Status [arg4], MC Address [arg5], and MC Misc [arg6].**

  This message is reported when system uncorrectable error has occurred.

  Severity: Error

  Parameters:

  [arg1] Socket number, 1-based.

  [arg2] CoreNumber

  [arg3] McBankNumber

  [arg4] McaStatus

[arg5] McaAddress

[arg6] McaMisc

User Action:

Complete the following steps:

1. Perform a virtual reseat or AC cycle the server.
2. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFPU0030N: A firmware fault has been detected in the UEFI image.**

  This message is reported when a firmware fault has been detected in the UEFI image.

  Severity: Error

  User Action:

  Complete the following steps:

  1. Check Lenovo Support site for an applicable service bulletin or firmware update that applies to this error.
  2. Reflash UEFI image.
  3. Undo recent system changes (settings or devices added). Verify that the system boots. Then, re-install options one at a time to locate the problem.
  4. If the problem persists, save customer's UEFI configurations, then remove and re-install CMOS battery for 30 seconds to clear CMOS contents. If it boots successfully, then restore system settings.
  5. If the problem persists, collect Service Data logs and contact Lenovo Support.

     Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key.

- **FQXSFPU0031N: The number of POST attempts has reached the value configured in F1 setup.The system has booted with default UEFI settings. User specified settings have been preserved and will be used on subsequent boots unless modified before rebooting.**

  This message is reported when the number of POST attempts has reached the value configured in F1 setup.

  Severity: Error

  User Action:

  Complete the following steps:

  1. Original UEFI settings are still present. If customer desires to continue using the original settings, select Save Settings.
  2. If User did not intentionally trigger the reboots, check logs for probable cause. For example, if there is a battery fault event, follow the steps to resolve that event.
  3. Undo recent system changes (settings or devices added). Verify that the system boots. Then, re-install options one at a time to locate the problem.
  4. Check Lenovo Support site for an applicable service bulletin or firmware update that applies to this error. Update UEFI firmware if applicable.
  5. Save customer's UEFI configurations, then remove and re-install CMOS battery for 30 seconds to clear CMOS contents. If it boots successfully, then restore system settings.
  6. If the problem persists, collect Service Data logs and contact Lenovo Support.

Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key.

- **FQXSFPU0035N: A 3-strike timeout has occurred on processor [arg1].**

  This message is reported when FEH detects CPU 3strike error.

  Severity: Error

  Parameters:

  [arg1] Socket number, 1-based

  User Action:

  Complete the following steps:

  1. Check Lenovo Support site for an applicable service bulletin or UEFI firmware update that applies to this error.
  2. Power off the system and remove A/C power.
  3. Restore A/C power and power on the system.
  4. Determine if there have been recent changes to the hardware, firmware or operating system. Reverse them if possible.
  5. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFPU0039G: 3rd party option rom of PCIe physical [arg1] number [arg2] failed secure boot verification.**

  This message is used to report un-trusted image from slot/NVMe when Security Boot is enabled.

  Severity: Warning

  Parameters:

  [arg1] slot/bay

  [arg2] slot number/bay number

  User Action:

  Complete the following steps:

  1. It is a security warning message reported when the customer wants to load an unauthorized UEFI option ROM (device image) from slot/NVMe bay while Secure Boot is enabled. If the customer does not want to load any unauthorized UEFI option ROM (device image) from slot/NVMe bay, there are two ways to disable it:
     a. Remove the device from slot or bay.
     b. Disable the UEFI option ROM policy for the failed slot (in F1 Setup -> System Settings -> Devices and I/O Ports -> Enable / Disable UEFI Option ROM(s))
  2. If the customer does want to load this unauthorized UEFI option ROM from slot/NVMe bay, disable Secure Boot(in F1 Setup -> System Settings -> Secure Boot).
  3. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFPU0040G: Secure boot keys were reset to factory default.**

  This message is reported when secure boot keys were reset to factory default.

  Severity: Warning

  User Action:

  Complete the following steps:

1. It is a warning message reported when NVRAM corruption occurs while Secure Boot is enabled.
2. Users need to re-enroll their certification keys.
3. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFPU0062F: System uncorrected recoverable error happened in Processor [arg1] Core [arg2] MC bank [arg3] with MC Status [arg4], MC Address [arg5], and MC Misc [arg6].**

  This message is reported when system uncorrected recoverable error happened.

  Severity: Warning

  Parameters:

  [arg1] Socket number, 1-based

  [arg2] CoreNumber

  [arg3] McBankNumber

  [arg4] McaStatus

  [arg5] McaAddress

  [arg6] McaMisc

  User Action:

  Complete the following steps:

  1. Perform a virtual reseat or AC cycle the server.
  2. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFPU4033F: TPM Firmware recovery is in progress. Please DO NOT power off or reset system.**

  The Audit log will be reported when TPM firmware is under recovery progress.

  Severity: Warning

  User Action:

  Information only; no action is required.

  Note: The system will not respond to power off signal (FQXSFPU4034I) while TPM firmware recovery in progress.

- **FQXSFPU4034I: TPM Firmware recovery is finished, rebooting system to take effect.**

  The Audit log will be reported after TPM Firmware recovery is finished.

  Severity: Info

  User Action:

  Information only; no action is required."

- **FQXSFPU4035M: TPM Firmware recovery failed. TPM chip may be damaged.**

  The Audit log will be reported when TPM Firmware recovery failed.

  Severity: Warning

  User Action:

  Complete the following steps:

  1. Reboot the system.
  2. If the error recurs TPM related features will not work.

3. If the problem persists, collect Service Data logs and contact Lenovo Support.

   Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key."

- **FQXSFPU4038I: TPM Firmware recovery successful.**

  The Audit log will be reported when TPM Firmware recovery is successful.

  Severity: Info

  User Action:

  Information only; no action is required."

- **FQXSFPU4040M: TPM selftest has failed.**

  The Audit log will be reported when the TPM selftest fails.

  Severity: Warning

  User Action:

  Complete the following steps:

  1. Reboot the system.
  2. If the error recurs TPM related features will not work.
  3. If the problem persists, collect Service Data logs and contact Lenovo Support.

     Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key."

- **FQXSFPU4041I: TPM Firmware update is in progress. Please DO NOT power off or reset system.**

  The Audit log will be reported when TPM Firmware update is in progress.

  Severity: Info

  User Action:

  Information only; no action is required."

- **FQXSFPU4042I: TPM Firmware update is finished, rebooting system to take effect.**

  The Audit log will be reported when TPM Firmware update is finished.

  Severity: Info

  User Action:

  Information only; no action is required."

- **FQXSFPU4044I: The current TPM firmware version could not support TPM version toggling.**

  The Audit log will be reported when the current TPM firmware version is not valid for toggling.

  Severity: Info

  User Action:

  Information only; no action is required."

- **FQXSFPU4050G: Failed to update TPM Firmware.**

  The Audit log will be reported when TPM firmware upgrade is failed.

  Severity: Warning

  User Action:

Complete the following steps:

1. Clear TPM via TPM operation and retry TPM firmware update by following the instructions in your product's User Guide. Go to https://pubs.lenovo.com and click your product's link. Usually, the TPM update information is in “System board assembly replacement” section in “Hardware replacement procedures”.
2. If the problem persists, collect Service Data logs and contact Lenovo Support. "

- **FQXSFPU4051G: Undefined TPM_POLICY found.**

  The Audit log will be reported when the TPM policy is not defined yet.

  Severity: Warning

  User Action:

  Complete the following steps:

  1. Reboot the system.
  2. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFPU4052G: TPM_POLICY is not locked.**

  The Audit log will be reported when TPM policy is not lock yet.

  Severity: Warning

  User Action:

  Complete the following steps:

  1. Reboot the system.
  2. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFPU4053G: System TPM_POLICY does not match the planar.**

  The Audit log will be reported if TPM policy setting is set to disable but TPM device is found on system.

  Severity: Warning

  User Action:

  Complete the following steps:

  1. Remove any newly added TPM/TCM card from the planar or re-install the original TPM/TCM card that shipped with the system.
  2. Reboot the system.
  3. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFPU4056M: TPM card is changed, need install back the original TPM card which shipped with the system.**

  The Audit log will be reported if NationZ device is removed from system after TPM is bound to system.

  Severity: Error

  User Action:

  Complete the following steps:

  1. Re-install the original TCM/TPM card that shipped with the system.
  2. Reboot the system.
  3. If the problem persists, collect Service Data logs and contact Lenovo Support.

Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key.

- **FQXSFPU4062I: CPU debugging is deactivated.**

  This message is reported when user disabled CPU debugging.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXSFPU4062M: CPU debugging is activated.**

  This message is reported when user enabled CPU debugging.

  Severity: Warning

  User Action:

  Contact Lenovo Support.

- **FQXSFPU4080I: Host Power-On password has been changed.**

  This message is reported when Host Power-On password has been changed.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXSFPU4081I: Host Power-On password has been cleared.**

  This message is reported when Host Power-On password has been cleared.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXSFPU4082I: Host Admin password has been changed.**

  This message is reported when Host Admin password has been changed.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXSFPU4083I: Host Admin password has been cleared.**

  This message is reported when Host Admin password has been cleared.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXSFPU4084I: Host boot order has been changed.**

  This message is reported when boot order has been changed.

  Severity: Info

  User Action:

Information only; no action is required.

- **FQXSFPU4086G: UEFI extra setting [arg1] is not found in current UEFI [arg2].**

  This message is reported when the extra settings specified in the exposure config file cannot be found during POST. The reason might be incorrect hardware configuration or UEFI build mismatch.

  Severity: Warning

  Parameters:

  [arg1] UEFI extra setting name specified in the exposure config file which is imported by end user.

  [arg2] UEFI current build ID.

  User Action:

  Complete the following steps:

  1. Check if the current UEFI version is compatible with the UEFI version specified in the exposure config file.
  2. If the current UEFI version does not meet the requirement, update UEFI to the compatible version at first, and then re-import the exposure config file.
  3. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFPU4087G: UEFI extra setting [arg1] value [arg2] is invalid in current UEFI [arg3].**

  This message is reported when the UEFI extra setting value specified by the exposure config file is invalid in the current UEFI version. The reason might be incorrect hardware configuration or UEFI build mismatch.

  Severity: Warning

  Parameters:

  [arg1] UEFI extra setting name specified in the exposure config file which is imported by end user.

  [arg2] UEFI extra setting value which is in Redfish format and specified in the exposure config file imported by end user.

  [arg3] UEFI current build ID.

  User Action:

  Complete the following steps:

  1. Check if the current UEFI version is compatible with the UEFI version specified in the exposure config file.
  2. If the current UEFI version does not meet the requirement, update UEFI to the compatible version, and then re-import the exposure config file.
  3. If the value is still invalid, set the setting to a supported value through out-of-band (OneCLI or Redfish) and restart the system to make the changes take effect. Also re-check if the setting value is set successfully or not.
  4. If need a new exposure config file compatible with the current UEFI version, collect Service Data logs and contact Lenovo Support.

- **FQXSFPU4088G: Custom default[arg1] is not present, unable to append custom default for UEFI extra setting [arg2].**

  This message is reported when the custom default value for the UEFI extra setting failed be appended to the custom default profile because the custom default is not present.

  Severity: Warning

  Parameters:

[arg1] UEFI custom default name specified in the exposure config file which is imported by end user. Only one custom default is supported now, then always output “”.

[arg2] UEFI extra setting name specified in the exposure config file which is imported by end user.

User Action:

Complete the following steps:

1. If the custom default value is already created, collect service data logs and contact Lenovo Support.
2. If the custom default value is not created, set the setting to a supported value through out-of-band (OneCLI or Redfish), restart the system to make the changes take effect, and then create custom defaults. (Note: The values of all other settings would be set to custom default values.)

- **FQXSFPU4089G: UEFI extra setting [arg1] value [arg2] for custom default[arg3] is invalid in current UEFI [arg4].**

  This message is reported when the custom default value specified for the UEFI extra setting in the exposure config file is invalid in the current UEFI version. The reason might be hardware configuration or UEFI build mismatch.

  Severity: Warning

  Parameters:

  [arg1] UEFI extra setting name specified in the exposure config file which is imported by end user.

  [arg2] Custom default value specified for the UEFI extra setting in the exposure config file which is imported by end user.

  [arg3] UEFI custom default name specified in the UEFI extra setting exposure config file which is imported by end user. Only one custom default is supported now, then always output “”.

  [arg4] UEFI current build ID.

  User Action:

  Complete the following steps:

  1. Check if the current UEFI version is compatible with the UEFI version specified in the exposure config file.
  2. If the current UEFI version does not meet the requirement, update UEFI to the compatible version, and then re-import the exposure config file.
  3. If the custom default value is still invalid, set the setting to a supported value through out-of-band (OneCLI or Redfish), restart the system to make the changes take effect, and then create custom default based on the supported value. (Note: the values of all other settings would be set to custom default value.)
  4. If you need to add the custom default value for the UEFI extra setting through the exposure config file, collect Service Data logs and contact Lenovo Support.

- **FQXSFPU4090G: UEFI extra setting [arg1] is not found after updating UEFI to [arg2].**

  This message is reported when the UEFI extra setting cannot be found during POST after a UEFI firmware flash. The reason might be UEFI version change.

  Severity: Warning

  Parameters:

  [arg1] UEFI extra setting name specified in the exposure config file which is imported by end user.

  [arg2] UEFI current build ID after updating UEFI.

  User Action:

Complete the following steps:

1. Check if the current UEFI version is compatible with the UEFI version specified in the exposure config file.
2. If the current UEFI version is not compatible with the UEFI version specified in the exposure config file, collect Service Data logs and contact Lenovo Support for a new exposure config file.

- **FQXSFPU4091G: UEFI extra setting [arg1] value is changed from [arg2] to [arg3] after updating UEFI to [arg4].**

  This message is reported when the value of the UEFI extra setting is not kept after a UEFI firmware update. The possible reason is that the value is dropped in the new UEFI version or the value is controlled by one or more Lenovo normal settings.

  Severity: Warning

  Parameters:

  [arg1] UEFI extra setting name specified in the exposure config file which is imported by end user.

  [arg2] UEFI extra setting previous value in Redfish format.

  [arg3] UEFI extra setting current value in Redfish format.

  [arg4] UEFI current build ID after updating UEFI.

  User Action:

  Complete the following steps:

  1. Check if the previous value is still supported by the new UEFI version. If the new value is not expected, then modify the value to the new expected one through out-of-band (OneCLI or Redfish).
  2. Check if the UEFI extra setting is controlled by any UEFI normal settings. If yes and you do not want to keep the UEFI extra setting exposed to out-of-band, do one of the following:
     a. Delete the exposure config file if all extra settings are not expected to be exposed to out-of-band.
     b. Collect Service Data logs and contact Lenovo Support to provide a new exposure config file if partial extra settings are not expected to be exposed to out-of-band.

- **FQXSFPU4092I: UEFI extra setting [arg1] is replaced by UEFI normal setting [arg2] after updating UEFI to [arg3].**

  This message is reported when the UEFI extra setting is replaced by UEFI normal settings after a UEFI firmware update. The UEFI extra setting in the exposure config file still can be read from out-of-band, but any change to the setting will no longer take effect.

  Severity: Info

  Parameters:

  [arg1] UEFI extra setting name specified in the exposure config file which is imported by end user.

  [arg2] UEFI normal setting name the same as Redfish DisplayName and System Setup Utility display name.

  [arg3] UEFI current build ID after updating UEFI.

  User Action:

  Information only; no action is required.

- **FQXSFPU4093G: UEFI setting [arg1] value [arg2] of custom default[arg3] is invalid in current UEFI [arg4].**

This message is reported when a previous custom default setting value cannot be applied in current UEFI version. The custom default value used during load custom defaults is not suitable for the current UEFI setting.

Severity: Warning

Parameters:

[arg1] UEFI setting name the same as Redfish DisplayName and System Setup Utility display name.

[arg2] UEFI setting custom default value in Redfish format.

[arg3] UEFI custom default name. Only one custom default is supported now, then always output “”.

[arg4] UEFI current build ID.

User Action:

Complete the following steps:

1. Reset a new customer default for this setting for current UEFI version.
2. If it still failed, contact Lenovo Support for help.

- **FQXSFPU4094I: UEFI extra settings exposure config file import successfully.**

  This message is reported when the Exposure Config File (ECF) is imported successfully.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXSFPU4095G: UEFI extra settings exposure config file import failed.**

  This message is reported when the UEFI extra settings exposure config file failed to be imported. The file does not pass file signature verification.

  Severity: Warning

  User Action:

  Complete the following steps:

  1. Check if the UEFI extra settings exposure config file is provided by Lenovo and the file is not corrupted.
  2. If the file attributes are normal, collect Service Data logs and contact Lenovo Support to check the file integrity.

- **FQXSFPU4096I: UEFI extra settings exposure config file is deleted and all UEFI extra settings are unset.**

  This message is reported when the UEFI extra settings exposure config file is deleted.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXSFPW0001L: CMOS has been cleared.**

  This message is reported when CMOS has been cleared.

  Severity: Warning

  User Action:

Complete the following steps:

1. If the CMOS clear was user initiated this event can be safely ignored and no further action is required.
2. If the system was recently installed, moved, or serviced, make sure the battery is properly seated.
3. Check Lenovo Support site for an applicable service bulletin or firmware update that applies to this error.
4. If the problem persists, collect Service Data logs and contact Lenovo Support.

Note: The solution for this error may involve a system board replacement. If TPM encryption has been enabled, back up TPM Encryption Recovery Key.

- **FQXSFSM0008M: Boot permission timeout detected.**

This message is reported when Boot permission timeout detected.

Severity: Error

User Action:

Complete the following steps:

1. Review XCC logs for communication errors and resolve.
2. AC cycle the system.
3. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFSR0001M: [arg1] GPT corruption detected, DiskGUID: [arg2]**

This message is reported when GPT corruption detected.

Severity: Warning

Parameters:

[arg1] GPT corruption location. "Primary" Only primary GPT partition table corruption. "Backup" Only backup GPT partition table corruption. "Both Primary and Backup" Both GPT partition tables corruption.

[arg2] Disk GUID.

User Action:

Complete the following steps:

1. Remove all the external drive during POST to avoid that this event is triggered by mistake.
2. Check the XCC event log. If this event has a follow up recovery event log, it means that GTP corruption has been recovered successfully. Ignore this event message and do not perform the remaining steps.
3. Back up the data disk.
4. Press F1 Setup->System Settings->Recovery and RAS->Disk GPT Recovery and set the value to "Automatic".
5. Save the settings and restart the system.
6. Boot to F1 setup. The system will automatically try to recover the GPT during the POST.
7. Restart the system.
8. Re-format the LUN or disk and re-install the OS.
9. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFSR0002I: [arg1] GPT corruption recovered, DiskGUID: [arg2]**

This message is reported when GPT corruption repaired.

Severity: Info

Parameters:

[arg1] GPT corruption location. "Primary" Only primary GPT partition table corruption. "Backup" Only backup GPT partition table corruption. "Both Primary and Backup" Both GPT partition tables corruption.

[arg2] Disk GUID

User Action:

Information only; no action is required.

- **FQXSFSR0003G: The number of boot attempts has been exceeded. No bootable device found.**

  This message is reported when Boot OS failed more than 50 times.

  Severity: Warning

  User Action:

  Complete the following steps:

  1. Remove AC power from the system.
  2. Connect at least one bootable device to the system.
  3. Connect AC power to the system.
  4. Power on system and retry.
  5. If the problem persists, collect Service Data logs and contact Lenovo Support.

- **FQXSFSR0003I: Boot OS successfully.**

  This message is reported when clear sensor status which previous boot failed more than 50 times when boot OS successfully.

  Severity: Info

  User Action:

  User boot OS successfully.

- **FQXSFTR0001L: An invalid date and time have been detected.**

  This message is reported when an invalid date and time have been detected.

  Severity: Warning

  User Action:

  Complete the following steps:

  1. Check the XCC event logs. This event should immediately precede an FQXSFPW0001L error. Resolve that event or any other battery related errors.
  2. Use F1 Setup to reset date and time.
  3. If the problem persists, collect Service Data logs and contact Lenovo Support.

Chapter 4. XClarity Provisioning Manager events

The following events can be generated by the Lenovo XClarity Provisioning Manager.

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
Provides 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:

- **Informational**. 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.

User Action
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. If you cannot solve the problem after performing all steps, contact Lenovo Support.

LXPM events organized by severity

The following table lists all LXPM events, organized by severity (Information, Error, and Warning).

Table 4. Events organized by severity

Event ID	Message String	Severity
FQXPMCL0005I	Start to install OS: [arg1].	Informational
FQXPMCL0006I	Export RAID configuration successfully.	Informational
FQXPMCL0007I	Import RAID configuration successfully.	Informational
FQXPMCL0008I	Export UEFI settings successfully.	Informational
FQXPMCL0009I	Import UEFI settings successfully.	Informational
FQXPMCL0010I	Export BMC settings successfully.	Informational
FQXPMCL0011I	Import BMC settings successfully.	Informational
FQXPMEM0002I	LXPM firmware image found. Starting LXPM.	Informational
FQXPMEM0003I	LXPM has exited. Control returned to UEFI.	Informational

Table 4. Events organized by severity (continued)

Event ID	Message String	Severity
FQXPMEM0004I	Launching diagnostic program.	Informational
FQXPMEM0005I	Boot diagnostic program successfully.	Informational
FQXPMER0002I	Clearing RAID configuration and internal storage data	Informational
FQXPMER0003I	RAID configuration cleared successfully	Informational
FQXPMER0004I	Internal storage drives erased successfully	Informational
FQXPMER0005I	All system logs cleared successfully	Informational
FQXPMER0006I	UEFI factory default settings loaded successfully	Informational
FQXPMER0007I	BMC factory default settings loaded successfully	Informational
FQXPMNM0002I	Set BMC network parameters to new values.	Informational
FQXPMOS0028I	Start to install OS: [arg1].	Informational
FQXPMSR0012I	Change disk drives' state successfully.	Informational
FQXPMSR0022I	Create new virtual disk(s) successfully.	Informational
FQXPMSR0032I	Removed existing virtual disk(s) successfully.	Informational
FQXPMUP0101I	Start to update LXPM.	Informational
FQXPMUP0102I	Start to update Window driver.	Informational
FQXPMUP0103I	Start to update Linux driver.	Informational
FQXPMUP0104I	Start to update UEFI.	Informational
FQXPMUP0105I	Start to update BMC.	Informational
FQXPMUP0106I	Successfully updated the firmware.	Informational
FQXPMVD0003I	Update VPD data successfully.	Informational
FQXPMCL0001K	Bootx64.efi is not found. Failed to Boot OS.	Warning
FQXPMCL0003K	BMC communication failed: DRIVER Mount Failure.	Warning
FQXPMCL0004K	BMC communication succeeded. Volume Name Mismatched.	Warning
FQXPMCL0006K	Failed to export RAID configuration.	Warning
FQXPMCL0007K	Failed to import RAID configuration.	Warning
FQXPMCL0008K	Failed to export UEFI settings.	Warning
FQXPMCL0009K	Failed to import UEFI settings.	Warning
FQXPMCL0010K	Failed to export BMC settings.	Warning
FQXPMCL0011K	Failed import BMC settings.	Warning
FQXPMNM0001G	Failed to set new BMC network parameters.	Warning
FQXPMOS0001K	Bootx64.efi is not found. Failed to Boot OS.	Warning
FQXPMOS0004K	BMC Communication Failed: EMMC2USB Mount Failure.	Warning
FQXPMOS0005K	BMC communication failed: DRIVER Mount Failure.	Warning
FQXPMOS0006K	BMC communication succeeded. Volume Name Mismatched.	Warning

Table 4. Events organized by severity (continued)

Event ID	Message String	Severity
FQXPMOS0007K	Failed to read License RTF file.	Warning
FQXPMOS0008K	Failed to detect any remote OS media for OS installation.	Warning
FQXPMSR0001K	Found unsupported RAID adapter.	Warning
FQXPMSR0011K	Failed to change disk drives' state.	Warning
FQXPMSS0001K	Failed to mount work partition while getting service data.	Warning
FQXPMSS0002K	Failed to mount work partition while getting debug log.	Warning
FQXPMSS0003K	No service data file created in the work partition	Warning
FQXPMSS0004K	No debug log file created in the work partition	Warning
FQXPMUP0003K	Unable to obtain the minimum level of UEFI.	Warning
FQXPMUP0004K	Unable to obtain the installed version of UEFI.	Warning
FQXPMUP0005K	Unable to obtain the installed version of BMC.	Warning
FQXPMUP0006K	Unable to obtain the installed version of LXPM.	Warning
FQXPMUP0007K	Unable to obtain the installed version of Linux driver.	Warning
FQXPMUP0008K	Unable to obtain the installed version of Windows driver.	Warning
FQXPMVD0001H	Failed to get VPD data.	Warning
FQXPMVD0002H	Failed to update the VPD data.	Warning
FQXPMVD0011K	Failed to get the TPM/TPM card/TCM policy status.	Warning
FQXPMVD0012K	Failed to set the TPM/TPM card/TCM policy.	Warning
FQXPMEM0001M	Unable to locate LXPM firmware image.	Error
FQXPMEM0006M	Unable to locate diagnostic firmware image.	Error
FQXPMEM0007M	Diagnostic image cannot be launched as "Console Redirection" is enabled.	Error
FQXPMEM0008M	Diagnostic image cannot be launched as the image may be corrupt.	Error
FQXPMER0002M	Failed to clear RAID configuration.	Error
FQXPMER0003M	Failed to erase internal storage drives.	Error
FQXPMER0004M	Failed to clear system logs.	Error
FQXPMER0005M	Failed to load UEFI factory default settings.	Error
FQXPMER0006M	Failed to load XCC factory default settings.	Error
FQXPMSD0001M	HDD Test was interrupted by the host with a hardware or software reset.	Error
FQXPMSD0002M	A fatal error or unknown test error occurred while the device was executing its self-test.	Error
FQXPMSD0003M	Self-test completed having a test element that failed and the test element that failed is not known.	Error
FQXPMSD0004M	Self-test completed having the electrical element of the test failed.	Error

Table 4. Events organized by severity (continued)

Event ID	Message String	Severity
FQXPMSD0005M	Self-test completed having the servo (and/or seek) test element of the test failed.	Error
FQXPMSD0006M	Self-test completed having the read element of the test failed.	Error
FQXPMSD0007M	Hard Drive(s) not found	Error
FQXPMSD0008M	UEFI is not ready for LXPM to send command to test hard drive.	Error
FQXPMSD0009M	Device error detected when LXPM sent a test command to a hard drive.	Error
FQXPMSD0010M	UEFI timed out when LXPM sent a test command to a hard drive.	Error
FQXPMSD0011M	The hard drive is not supported by UEFI while LXPM sent a command to test the hard drive.	Error
FQXPMSR0021L	Failed to create new virtual disk(s).	Error
FQXPMSR0031L	Failed to remove existing virtual disk(s).	Error
FQXPMUP0201M	BMC communication failed: EMMC2USB mount failure. Failed to update the firmware.	Error
FQXPMUP0202M	Transfer the update package error. Failed to update the firmware.	Error
FQXPMUP0203M	BMC communication failed: EMMC2USB unmount failure. Failed to update the firmware.	Error
FQXPMUP0204M	BMC communication failed: Execute the update command failure. Failed to update the firmware.	Error
FQXPMUP0205M	BMC communication failed: Get the update status failure. Failed to update the firmware.	Error
FQXPMUP0206M	The level of the update package is too old. Failed to update the firmware.	Error
FQXPMUP0207M	The update package is invalid. Failed to update the firmware.	Error
FQXPMUP0208M	Failed to execute the reboot BMC command.	Error

List of XClarity Provisioning Manager events

This section lists all messages that can be sent from the Lenovo XClarity Provisioning Manager.

- **FQXPMCL0001K: Bootx64.efi is not found. Failed to Boot OS.**

  This message is reported when OS installation failed to start because Bootx64.efi was not found.

  Severity: Warning

  User Action:

  1. Restart BMC via supported method and reboot the system.
  2. If the problem persists, reflash BMC firmware.
  3. Reboot system and retry OS booting.
  4. Perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.

5. If the problem persists, contact technical support.

- **FQXPMCL0003K: BMC communication failed: DRIVER Mount Failure.**

  This message is reported when OS installation failed because of a driver mount failure.

  Severity: Warning

  User Action:

  1. Ensure proper operation of the virtual USB connection.
  2. Restart BMC via supported method and reboot the system.
  3. Reflash BMC firmware.
  4. Clone the image over and retry the operation.
  5. Perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  6. If the problem persists, contact technical support.

- **FQXPMCL0004K: BMC communication succeeded. Volume Name Mismatched.**

  This message is reported when OS installation failed because the volume name was mismatched.

  Severity: Warning

  User Action:

  1. Restart BMC via supported method and reboot the system.
  2. Reflash BMC firmware.
  3. Clone the image over and retry the operation.
  4. Perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  5. If the problem persists, contact technical support.

- **FQXPMCL0005I: Start to install OS: [arg1].**

  This message is reported when OS installation starts.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMCL0006I: Export RAID configuration successfully.**

  This message is reported when RAID configuration is exported successfully.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMCL0006K: Failed to export RAID configuration.**

  This message is reported when RAID configuration failed to be exported.

Severity: Warning

User Action:

1. Check the following Lenovo Support site for information on supported RAID adapters. https://serverproven.lenovo.com
2. Ensure that RAID adapter, LXPM, and UEFI firmware are at the latest levels.
3. Ensure that the state of the RAID adapter and disk drives are normal.
4. Verify proper physical connection of the disk drive, SAS expander (if applicable) and RAID adapter.
5. Reboot the machine and retry the export of the RAID configuration.
6. If the problem persists, contact technical support.

- **FQXPMCL0007I: Import RAID configuration successfully.**

  This message is reported when RAID configuration is imported successfully.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMCL0007K: Failed to import RAID configuration.**

  This message is reported when RAID configuration failed to be imported.

  Severity: Warning

  User Action:

  1. Check the following Lenovo Support site for information on supported RAID adapters. https://serverproven.lenovo.com
  2. Ensure that RAID adapter, LXPM, and UEFI firmware are at the latest levels.
  3. Ensure that the state of RAID adapter and disk drives are healthy.
  4. Ensure good physical connection between the disk drives and RAID adapter.
  5. Ensure that the platform and RAID config is identical to original configuration.
  6. Reboot the machine and retry the import of the RAID configuration.
  7. If the problem persists, contact technical support.

- **FQXPMCL0008I: Export UEFI settings successfully.**

  This message is reported when UEFI settings are exported successfully.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMCL0008K: Failed to export UEFI settings.**

  This message is reported when UEFI settings failed to be exported.

  Severity: Warning

  User Action:

  1. Ensure proper connection to USB/network drive and retry to export UEFI setting.
  2. Reboot and try the UEFI setting export again.

3. Reflash UEFI firmware.
4. If the problem persists, contact technical support.

- **FQXPMCL0009I: Import UEFI settings successfully.**

  This message is reported when UEFI settings are imported successfully.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMCL0009K: Failed to import UEFI settings.**

  This message is reported when UEFI settings failed to be imported.

  Severity: Warning

  User Action:

  1. Ensure proper connection to USB/network drive and retry the UEFI setting import.
  2. Ensure that same system model type to import the UEFI setting and UEFI version should be the same.
  3. Reboot and try to import a new clone of the UEFI settings.
  4. Reflash UEFI firmware.
  5. If the problem persists, contact technical support.

- **FQXPMCL0010I: Export BMC settings successfully.**

  This message is reported when BMC settings are exported successfully.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMCL0010K: Failed to export BMC settings.**

  This message is reported when BMC settings failed to be exported.

  Severity: Warning

  User Action:

  1. Restart BMC via supported method and reboot the system.
  2. Perform AC reset.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  3. Retry the export of BMC setting.
  4. If the problem persists, contact technical support.

- **FQXPMCL0011I: Import BMC settings successfully.**

  This message is reported when BMC settings are imported successfully.

  Severity: Info

  User Action:

Information only; no action is required.

- **FQXPMCL0011K: Failed import BMC settings.**

  This message is reported when BMC settings failed to be imported.

  Severity: Warning

  User Action:

  1. Ensure BMC version is the same between source and target.
  2. Restart BMC via supported method and reboot the system.
  3. Perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  4. Retry the import of BMC setting.
  5. If the problem persists, contact technical support.

- **FQXPMEM0001M: Unable to locate LXPM firmware image.**

  This message is reported when locating LXPM firmware image failed during LXPM boot.

  Severity: Error

  User Action:

  1. Restart BMC via supported method and reboot the system.
  2. Reflash the LXPM.
  3. Perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  4. If the problem persists, contact technical support.

- **FQXPMEM0002I: LXPM firmware image found. Starting LXPM.**

  This message is reported when LXPM is starting.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMEM0003I: LXPM has exited. Control returned to UEFI.**

  This message is reported when LXPM has exited.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMEM0004I: Launching diagnostic program.**

  This message is reported when the diagnostic program is starting.

  Severity: Info

  User Action:

Information only; no action is required.

- **FQXPMEM0005I: Boot diagnostic program successfully.**

  This message is reported when the diagnostic program is launched successfully.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMEM0006M: Unable to locate diagnostic firmware image.**

  This message is reported when locating diagnostic firmware image failed during diagnostic boot.

  Severity: Error

  User Action:

  1. Restart BMC via supported method and reboot the system.
  2. Perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  3. If the problem persists, contact technical support.

- **FQXPMEM0007M: Diagnostic image cannot be launched as "Console Redirection" is enabled.**

  This message is reported when the diagnostic image failed to be launched because "Console Redirection" is enabled.

  Severity: Error

  User Action:

  1. Disable “Configure Console Redirection” in UEFI Setup by following below steps: - Go to F1 Setup -> System Settings -> Devices and I/O Ports-> Console Redirection Settings -> - Select "Console Redirection" - Change the setting to “Disable” and save - Next reboot the system.
  2. Perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  3. If the problem persists, contact technical support.

- **FQXPMEM0008M: Diagnostic image cannot be launched as the image may be corrupt.**

  This message is reported when the diagnostic image failed to be launched because the image may be corrupted.

  Severity: Error

  User Action:

  1. Restart BMC via supported method and reboot the system.
  2. Perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  3. Reflash the LXPM.
  4. If the problem persists, contact technical support.

- **FQXPMER0002I: Clearing RAID configuration and internal storage data**

  This message is reported when RAID configuration and internal storage data is being cleared.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMER0002M: Failed to clear RAID configuration.**

  This message is reported when RAID configuration failed to be cleared.

  Severity: Error

  User Action:

  1. Restart the system and retry the operation again.
  2. If the problem persists, contact technical support.

- **FQXPMER0003I: RAID configuration cleared successfully**

  This message is reported when RAID configuration is cleared successfully.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMER0003M: Failed to erase internal storage drives.**

  This message is reported when internal storage drives failed to be erased.

  Severity: Error

  User Action:

  1. Ensure the proper connection of hard drives, backplane, and related cables.
  2. Check if security function is enabled for the hard disk drives, if yes, disable that and retry the operation.
  3. Ensure that device firmware is at the latest level.
  4. Restart the system and retry the operation again.
  5. If the problem persists, contact technical support.

- **FQXPMER0004I: Internal storage drives erased successfully**

  This message is reported when internal storage drives are erased successfully.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMER0004M: Failed to clear system logs.**

  This message is reported when system logs failed to be cleared.

  Severity: Error

  User Action:

  1. Restart BMC via supported method and reboot the system.

2. Retry this operation again.
3. If the problem persists, contact technical support.

- **FQXPMER0005I: All system logs cleared successfully**

  This message is reported when all system logs are cleared successfully.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMER0005M: Failed to load UEFI factory default settings.**

  This message is reported when UEFI factory default settings failed to be loaded.

  Severity: Error

  User Action:

  1. Restart BMC via supported method and reboot the system.
  2. Retry this operation again.
  3. If the problem persists, contact technical support.

- **FQXPMER0006I: UEFI factory default settings loaded successfully**

  This message is reported when UEFI factory default settings are loaded successfully.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMER0006M: Failed to load XCC factory default settings.**

  This message is reported when XCC factory default settings failed to be loaded.

  Severity: Error

  User Action:

  1. Restart BMC via supported method and reboot the system.
  2. Retry this operation again.
  3. If the problem persists, perform AC power cycle. (wait for several seconds between AC power is off and on)
  4. Retry this operation again.
  5. If the problem persists, contact technical support.

- **FQXPMER0007I: BMC factory default settings loaded successfully**

  This message is reported when BMC factory default settings are loaded successfully.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMNM0001G: Failed to set new BMC network parameters.**

  This message is reported when BMC network parameters failed to be set.

Severity: Warning

User Action:

1. Ensure input parameters are valid.
2. Wait for one minute and retry the setting.
3. Restart BMC via supported method and reboot the system.
4. Retry the setting change.
5. Use UEFI setup to change parameters (optional).

- **FQXPMNM0002I: Set BMC network parameters to new values.**

  This message is reported when BMC network parameters are set successfully.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMOS0001K: Bootx64.efi is not found. Failed to Boot OS.**

  This message is reported when OS installation failed to start because Bootx64.efi was not found.

  Severity: Warning

  User Action:

  1. Restart BMC via supported method and reboot the system.
  2. Reflash BMC firmware.
  3. Reboot system and retry OS booting.
  4. Perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  5. If the problem persists, contact technical support.

- **FQXPMOS0004K: BMC Communication Failed: EMMC2USB Mount Failure.**

  This message is reported when OS installation failed because of work partition mount failure.

  Severity: Warning

  User Action:

  1. Ensure proper operation of the virtual USB connection.
  2. Restart BMC via supported method and reboot the system.
  3. Reflash BMC firmware.
  4. Retry OS deployment.
  5. Perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  6. If the problem persists, contact technical support.

- **FQXPMOS0005K: BMC communication failed: DRIVER Mount Failure.**

  This message is reported when OS installation failed because of a driver mount failure.

Severity: Warning

User Action:

1. Ensure proper operation of the virtual USB connection.
2. Restart BMC via supported method and reboot the system.
3. Reflash BMC firmware.
4. Retry OS deployment.
5. Perform AC reset or virtual reseat.

   Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
6. If the problem persists, contact technical support.

- **FQXPMOS0006K: BMC communication succeeded. Volume Name Mismatched.**

  This message is reported when OS installation failed because volume name mismatched.

  Severity: Warning

  User Action:

  1. Restart BMC via supported method and reboot the system.
  2. If the problem persists, reflash BMC firmware.
  3. Retry OS deployment.
  4. Perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  5. If the problem persists, contact technical support.

- **FQXPMOS0007K: Failed to read License RTF file.**

  This message is reported when LXPM failed to read the license file from the OS media.

  Severity: Warning

  User Action:

  1. Restart BMC via supported method and reboot the system.
  2. If the problem persists, reflash BMC firmware.
  3. Use another OS media (USB DVD or USB key).
  4. Retry OS deployment.
  5. Perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  6. If the problem persists, contact technical support.

- **FQXPMOS0008K: Failed to detect any remote OS media for OS installation.**

  This message is reported when no remote OS media was found for OS installation.

  Severity: Warning

  User Action:

1. Ensure that proper operation of SMB/CIFS and NFS communications (make sure the Ethernet cable has been plugged and network settings are correct.).
2. Make sure that the OS version and folder path are correct.
3. Retry CIFS and NFS installation.
4. If the problem persists, contact technical support.

- **FQXPMOS0028I: Start to install OS: [arg1].**

  This message is reported when OS installation starts.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMSD0001M: HDD Test was interrupted by the host with a hardware or software reset.**

  This message is reported when HDD test was interrupted by the controller.

  Severity: Error

  User Action:

  1. Remove A/C from the server and reseat all drives, backplanes, RAID adapters, expanders (if any), and cables.
  2. Ensure that device firmware is at the latest level.
  3. Retry the test.
  4. If the problem persists, contact technical support.

- **FQXPMSD0002M: A fatal error or unknown test error occurred while the device was executing its self-test.**

  This message is reported when a fatal error or unknown test error occurred while the device was executing its self-test.

  Severity: Error

  User Action:

  1. Remove A/C from the server and reseat all drives, backplanes, RAID adapters, expanders (if any), and cables.
  2. Ensure that device firmware is at the latest level.
  3. Retry the test.
  4. If the problem persists, contact technical support.

- **FQXPMSD0003M: Self-test completed having a test element that failed and the test element that failed is not known.**

  This message is reported when self-test completed with an unknown test element failed.

  Severity: Error

  User Action:

  1. Remove A/C from the server and reseat all drives, backplanes, RAID adapters, expanders (if any), and cables.
  2. Ensure that device firmware is at the latest level.
  3. Retry the test.

4. If the problem persists, contact technical support.

- **FQXPMSD0004M: Self-test completed having the electrical element of the test failed.**

  This message is reported when self-test completed with an electrical test element failed.

  Severity: Error

  User Action:

  1. Remove A/C from the server and reseat all drives, backplanes, RAID adapters, expanders (if any), and cables.
  2. Ensure that device firmware is at the latest level.
  3. Retry the test.
  4. If the problem persists, contact technical support.

- **FQXPMSD0005M: Self-test completed having the servo (and/or seek) test element of the test failed.**

  This message is reported when self-test completed with the servo (and/or seek) test element failed.

  Severity: Error

  User Action:

  1. Remove A/C from the server and reseat all drives, backplanes, RAID adapters, expanders (if any), and cables.
  2. Ensure that device firmware is at the latest level.
  3. Retry the test.
  4. If the problem persists, contact technical support.

- **FQXPMSD0006M: Self-test completed having the read element of the test failed.**

  This message is reported when self-test completed with the read element failed.

  Severity: Error

  User Action:

  1. Remove A/C from the server and reseat all drives, backplanes, RAID adapters, expanders (if any), and cables.
  2. Ensure that device firmware is at the latest level.
  3. Retry the test.
  4. If the problem persists, contact technical support.

- **FQXPMSD0007M: Hard Drive(s) not found**

  This message is reported when hard drive(s) were not found while LXPM sent a test command to hard drive(s).

  Severity: Error

  User Action:

  1. Remove A/C from the server and reseat all drives, backplanes, RAID adapters, expanders (if any), and cables.
  2. Ensure that device firmware is at the latest level.
  3. Verify that the same Error is present in BMC or OneCLI inventory log.
  4. Retry the test.

5. If the problem persists, contact technical support.

- **FQXPMSD0008M: UEFI is not ready for LXPM to send command to test hard drive.**

  This message is reported when the interface for hard drive test is not ready.

  Severity: Error

  User Action:

  1. Reboot the system and run the test again.
  2. If this message is still reported, run the latest version of SMART tool on OS which is open-source tool and could be downloaded from website to check hard drive status.
  3. If the problem persists, contact technical support.

- **FQXPMSD0009M: Device error detected when LXPM sent a test command to a hard drive.**

  This message is reported when the interface for hard drive test returned a device error.

  Severity: Error

  User Action:

  1. Do one of the following:
     - If the affected drive(s) are detected by the system, update the disk drive firmware and reboot the server.
     - If the affected drive(s) are not detected by the system or failing to respond:
       a. Power off the server and remove A/C power.
       b. Reseat the associated RAID controller, SAS cables, backplane and drive(s).
       c. Restore system power and reboot the server.
  2. Re-run the disk drive test from LXPM. For details, see the LXPM documentation at: https://pubs.lenovo.com/lxpm-overview/. Click on the LXPM version for your server model, and choose Using LXPM -> Diagnostics -> Running diagnostics from the left navigation tree.
  3. If the problem persists, save the test result to a test_hdd.txt file using a local USB storage device or a shared network folder.
  4. Contact technical support for a drive replacement.

- **FQXPMSD0010M: UEFI timed out when LXPM sent a test command to a hard drive.**

  This message is reported when the interface for hard drive test returned timeout after LXPM sent a test command to a hard drive.

  Severity: Error

  User Action:

  1. Do one of the following:
     - If the affected drive(s) are detected by the system, update the disk drive firmware and reboot the server.
     - If the affected drive(s) are not detected by the system or failing to respond:
       a. Power off the server and remove A/C power.
       b. Reseat the associated RAID controller, SAS cables, backplane and drive(s).
       c. Restore system power and reboot the server.

2. Run the disk drive test from LXPM. For details, see the LXPM documentation at: https://pubs.lenovo.com/lxpm-overview/. Click on the LXPM version for your server model, and choose Using LXPM -> Diagnostics -> Running diagnostics from the left navigation tree.
3. If the problem persists, save the test result to a test_hdd.txt file using a local USB storage device or a shared network folder.
4. Contact technical support for a drive replacement.

- **FQXPMSD0011M: The hard drive is not supported by UEFI while LXPM sent a command to test the hard drive.**

  This message is reported when the interface for hard drive test returned hard drive unsupported after LXPM sent a test command to a hard drive.

  Severity: Error

  User Action:

  1. Check hard drive specification to see if the hard drive support ATA self-test feature.
  2. If the problem persists, contact technical support.

- **FQXPMSR0001K: Found unsupported RAID adapter.**

  This message is reported when an unsupported RAID adapter was found.

  Severity: Warning

  User Action:

  1. Check the following Lenovo Support site for information on supported RAID adapters. https://serverproven.lenovo.com
  2. Ensure that RAID adapter, LXPM, and UEFI firmware are at the latest levels.
  3. If the problem persists, contact technical support.

- **FQXPMSR0011K: Failed to change disk drives' state.**

  This message is reported when changing disk drives' state failed.

  Severity: Warning

  User Action:

  1. Ensure that LXPM and RAID adapter firmware are at the latest levels.
  2. Ensure that the state of the RAID adapter and disk drives are both healthy.
  3. Verify proper physical connection of the disk drive, SAS expander (if applicable) and RAID adapter.
  4. Ensure that the operation to the special drive is legal or logical. (For example, you cannot change Unconfigured BAD to Online status)
  5. Reboot the machine and retry to change disk drives' state.
  6. If the problem persists, contact technical support.

- **FQXPMSR0012I: Change disk drives' state successfully.**

  This message is reported when disk drives' state is changed successfully.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMSR0021L: Failed to create new virtual disk(s).**

This message is reported when creating new virtual disk(s) failed.

Severity: Error

User Action:

1. Ensure that LXPM and RAID adapter firmware are at the latest levels.
2. Ensure that the state of RAID adapter and disk drives are both healthy.
3. Verify proper physical connection of the disk drive, SAS expander (if applicable)and RAID adapter.
4. Ensure that the drive status is correct (Unconfigured Good).
5. Reboot the machine and retry to create new virtual disk.
6. If the problem persists, contact technical support.

- **FQXPMSR0022I: Create new virtual disk(s) successfully.**

  This message is reported when new virtual disk(s) are created successfully.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMSR0031L: Failed to remove existing virtual disk(s).**

  This message is reported when existing virtual disk(s) failed to be removed.

  Severity: Error

  User Action:

  1. Ensure that LXPM and RAID adapter firmware are at the latest levels.
  2. Ensure that the state of RAID adapter and disk drives are both healthy.
  3. Verify proper physical connection of the disk drive, SAS expander (if applicable)and RAID adapter.
  4. Reboot the machine and retry to remove the existing virtual disk.
  5. If the problem persists, contact technical support.

- **FQXPMSR0032I: Removed existing virtual disk(s) successfully.**

  This message is reported when existing virtual disk(s) are removed successfully.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMSS0001K: Failed to mount work partition while getting service data.**

  This message is reported when mounting work partition failed while the user tried to get service data.

  Severity: Warning

  User Action:

  1. Retry this operation again.
  2. Try to get service data from the XCC web interface.
  3. If the problem persists, try a different Lenovo tool to perform the operation (e.g., XClarity Administrator or XClarity Essential OneCLI).
  4. If the problem persists, contact technical support.

- **FQXPMSS0002K: Failed to mount work partition while getting debug log.**

  This message is reported when mounting work partition failed while the user tried to get debug logs.

  Severity: Warning

  User Action:

  1. Retry this operation again.
  2. Try to get debug logs from the XCC web interface.
  3. If the problem persists, try a different Lenovo tool to perform the operation (e.g., XClarity Administrator or XClarity Essential OneCLI).
  4. If the problem persists, contact technical support.

- **FQXPMSS0003K: No service data file created in the work partition**

  This message is reported when no service data file was found in the work partition while the user tried to get service data.

  Severity: Warning

  User Action:

  1. Retry this operation again.
  2. Try to get service data from the XCC web interface.
  3. If the problem persists, try a different Lenovo tool to perform the operation (e.g., XClarity Administrator or XClarity Essential OneCLI).
  4. If the problem persists, contact technical support.

- **FQXPMSS0004K: No debug log file created in the work partition**

  This message is reported when no debug log file was found in the work partition while the user tried to get debug logs.

  Severity: Warning

  User Action:

  1. Retry this operation again.
  2. Try to get debug logs from the XCC web interface.
  3. If the problem persists, try a different Lenovo tool to perform the operation (e.g., XClarity Administrator or XClarity Essential OneCLI).
  4. If the problem persists, contact technical support.

- **FQXPMUP0003K: Unable to obtain the minimum level of UEFI.**

  This message is reported when the minimum UEFI firmware version failed to be obtained.

  Severity: Warning

  User Action:

  1. Restart BMC via supported method and reboot the system.
  2. Reflash BMC firmware.
  3. Perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.

4. If the problem persists, contact technical support.

- **FQXPMUP0004K: Unable to obtain the installed version of UEFI.**

  This message is reported when the current UEFI firmware build ID failed to be obtained.

  Severity: Warning

  User Action:

  1. Restart BMC via supported method and reboot the system.
  2. Reflash BMC firmware.
  3. Perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  4. If the problem persists, contact technical support.

- **FQXPMUP0005K: Unable to obtain the installed version of BMC.**

  This message is reported when the current BMC firmware build ID failed to be obtained.

  Severity: Warning

  User Action:

  1. Restart BMC via supported method and reboot the system.
  2. Reflash BMC firmware.
  3. Perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  4. If the problem persists, contact technical support.

- **FQXPMUP0006K: Unable to obtain the installed version of LXPM.**

  This message is reported when the current LXPM firmware build ID failed to be obtained.

  Severity: Warning

  User Action:

  1. Restart BMC via supported method and reboot the system.
  2. Reflash BMC firmware.
  3. Perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  4. If the problem persists, contact technical support.

- **FQXPMUP0007K: Unable to obtain the installed version of Linux driver.**

  This message is reported when the current firmware build ID of Linux driver failed to be obtained.

  Severity: Warning

  User Action:

  1. Restart BMC via supported method and reboot the system.
  2. Perform AC reset or virtual reseat.

Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.

3. If the problem persists, contact technical support.

- **FQXPMUP0008K: Unable to obtain the installed version of Windows driver.**

  This message is reported when the current firmware build ID of Windows driver failed to be obtained.

  Severity: Warning

  User Action:

  1. Restart BMC via supported method and reboot the system.
  2. Reflash BMC firmware.
  3. Perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  4. If the problem persists, contact technical support.

- **FQXPMUP0101I: Start to update LXPM.**

  This message is reported when LXPM firmware update starts.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMUP0102I: Start to update Window driver.**

  This message is reported when Window driver firmware update starts.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMUP0103I: Start to update Linux driver.**

  This message is reported when Linux driver firmware update starts.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMUP0104I: Start to update UEFI.**

  This message is reported when UEFI firmware update starts.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMUP0105I: Start to update BMC.**

  This message is reported when BMC firmware update starts.

  Severity: Info

User Action:

Information only; no action is required.

- **FQXPMUP0106I: Successfully updated the firmware.**

  This message is reported when the selected firmware package is updated successfully.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMUP0201M: BMC communication failed: EMMC2USB mount failure. Failed to update the firmware.**

  This message is reported when mounting work partition failed during firmware package update.

  Severity: Error

  User Action:

  1. Restart BMC via supported method and BMC setting via UEFI setup or "Restart Management Controller" in BMC web UI. Then, reboot the system.
  2. If the problem persists, reflash the BMC firmware.
  3. If the problem persists, perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  4. If the problem persists, try a different Lenovo tool to perform the update (e.g., XClarity Administrator, XClarity Controller, or XClarity Essential OneCLI).
  5. If the problem persists, contact technical support.

- **FQXPMUP0202M: Transfer the update package error. Failed to update the firmware.**

  This message is reported when the firmware update package failed to be transferred to the work partition.

  Severity: Error

  User Action:

  1. Ensure that the update package is not corrupt undamaged and then retry the update.
  2. Ensure that proper connection to USB/network drive and retry the update.
  3. Restart BMC via supported methods and BMC setting via UEFI setup or "Restart Management Controller" in BMC web UI. Then, reboot the system.
  4. If the problem persists, reflash the BMC firmware.
  5. If the problem persists, perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  6. If the problem persists, try a different Lenovo tool to perform the update (e.g., XClarity Administrator, XClarity Controller, or XClarity Essential OneCLI).
  7. If the problem persists, contact technical support.

- **FQXPMUP0203M: BMC communication failed: EMMC2USB unmount failure. Failed to update the firmware.**

  This message is reported when unmounting work partition failed during firmware update.

Severity: Error

User Action:

1. Restart BMC via supported method and reboot the system.
2. Reflash the BMC firmware.
3. If the problem persists, perform AC reset or virtual reseat.

   Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
4. If the problem persists, try a different Lenovo tool to perform the update (e.g., XClarity Administrator, XClarity Controller, or XClarity Essential OneCLI).
5. If the problem persists, contact technical support.

- **FQXPMUP0204M: BMC communication failed: Execute the update command failure. Failed to update the firmware.**

  This message is reported when executing the update command failed.

  Severity: Error

  User Action:

  1. Restart BMC via supported method.
  2. Reflash BMC firmware.
  3. Perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  4. If the problem persists, try a different Lenovo tool to perform the update (e.g., XClarity Administrator, XClarity Controller, or XClarity Essential OneCLI).
  5. If the problem persists, contact technical support.

- **FQXPMUP0205M: BMC communication failed: Get the update status failure. Failed to update the firmware.**

  This message is reported when the firmware update status failed to be obtained.

  Severity: Error

  User Action:

  1. Restart BMC via supported method and reboot the system.
  2. Reflash BMC firmware.
  3. Perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  4. If the problem persists, try a different Lenovo tool to perform the update (e.g., XClarity Administrator, XClarity Controller, or XClarity Essential OneCLI).
  5. If the problem persists, contact technical support.

- **FQXPMUP0206M: The level of the update package is too old. Failed to update the firmware.**

  This message is reported when firmware update failed because the version of selected package is too old to be used.

Severity: Error

User Action:

1. Follow prompts to select a newer version of the update package and retry the update.
2. Restart BMC via supported method and reboot the system.
3. Perform AC reset or virtual reseat.

   Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
4. If the problem persists, try a different Lenovo tool to perform the update (e.g., XClarity Administrator, XClarity Controller, or XClarity Essential OneCLI).
5. If the problem persists, contact technical support.

- **FQXPMUP0207M: The update package is invalid. Failed to update the firmware.**

  This message is reported when firmware update failed because the update package is invalid.

  Severity: Error

  User Action:

  1. Ensure that the update package is not corrupt and retry the update.
  2. Ensure proper connection to USB/network drive and retry the update.
  3. Restart BMC via supported method and BMC setting via UEFI setup or "Restart Management Controller" in BMC web UI. Then, reboot the system.
  4. Reflash the BMC firmware.
  5. Perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  6. If the problem persists, try a different Lenovo tool to perform the update (e.g., XClarity Administrator, XClarity Controller, or XClarity Essential OneCLI).
  7. If the problem persists, contact technical support.

- **FQXPMUP0208M: Failed to execute the reboot BMC command.**

  This message is reported when executing the reboot BMC command failed.

  Severity: Error

  User Action:

  1. Restart BMC via supported method and reboot the system.
  2. Reflash BMC firmware.
  3. If the problem persists, perform AC reset or virtual reseat.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  4. If the problem persists, contact technical support.

- **FQXPMVD0001H: Failed to get VPD data.**

  This message is reported when getting VPD data failed.

  Severity: Warning

User Action:

1. Press "Global Settings" button and press "Update VPD" button again.
2. Perform AC reset or virtual reseat if step 1 failed.

   Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
3. If the problem persists, contact technical support.

- **FQXPMVD0002H: Failed to update the VPD data.**

  This message is reported when updating VPD data failed.

  Severity: Warning

  User Action:

  1. Press "Update" button on VPD update page.
  2. Perform AC reset or virtual reseat if step 1 failed.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  3. If the problem persists, contact technical support.

- **FQXPMVD0003I: Update VPD data successfully.**

  This message is reported when VPD data is updated successfully.

  Severity: Info

  User Action:

  Information only; no action is required.

- **FQXPMVD0011K: Failed to get the TPM/TPM card/TCM policy status.**

  This message is reported when the TPM/TCM policy status failed to be obtained.

  Severity: Warning

  User Action:

  1. Press "Global Settings" button and press "Update VPD" button again.
  2. Perform AC reset or virtual reseat if step 1 failed.

     Note: When performing AC reset, after powering off AC, wait for several seconds before powering on AC. After AC power is restored, power on the host system.
  3. If the problem persists, contact technical support.

- **FQXPMVD0012K: Failed to set the TPM/TPM card/TCM policy.**

  This message is reported when setting the TPM/TCM policy failed.

  Severity: Warning

  User Action:

  1. Press "Apply" button on VPD update page.
  2. Reboot the system if step 1 failed.
  3. If the problem persists, contact technical support.

Appendix A. 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.

On the World Wide Web, up-to-date information about Lenovo systems, optional devices, services, and support are available at:

http://datacentersupport.lenovo.com

Note: IBM is Lenovo's preferred service provider for ThinkSystem.

Before you call

Before you call, there are several steps that you can take to try and solve the problem yourself. If you decide that you do need to call for assistance, gather the information that will be needed by the service technician to more quickly resolve your problem.

Attempt to resolve the problem yourself

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 online help 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.

You can find the product documentation for your ThinkSystem products at the following location:

https://pubs.lenovo.com/

You can take these steps to try to solve the problem yourself:

- 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. (See the following links) 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.
  - Drivers and software downloads
    - https://datacentersupport.lenovo.com/products/servers/thinksystem/sr650v4/downloads/driver-list/
  - Operating system support center
    - https://datacentersupport.lenovo.com/solutions/server-os
  - Operating system installing instructions
    - https://pubs.lenovo.com/thinksystem#os-installation
- If you have installed new hardware or software in your environment, check https://serverproven.lenovo.com to make sure that the hardware and software are supported by your product.
- Refer to “Problem Determination” in *User Guide* or *Hardware Maintenance Guide* for instructions on isolating and solving issues.

- Go to http://datacentersupport.lenovo.com and check for information to help you solve the problem.

  To find the Tech Tips available for your server:

  1. Go to http://datacentersupport.lenovo.com and navigate to the support page for your server.
  2. Click on **How To's** from the navigation pane.
  3. Click **Article Type → Solution** from the drop-down menu.

     Follow the on-screen instructions to choose the category for the problem that you are having.
- Check Lenovo Data Center Forum at https://forums.lenovo.com/t5/Datacenter-Systems/ct-p/sv_eg to see if someone else has encountered a similar problem.

Gathering information needed to call Support

If you require warranty service for your Lenovo product, the service technicians will be able to assist you more efficiently if you prepare the appropriate information before you call. You can also go to http://datacentersupport.lenovo.com/warrantylookup for more information about your product warranty.

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). Machine type number can be found on the ID label, see "Identifying the server and access the Lenovo XClarity Controller" in *User Guide* or *System Configuration Guide*.
- Model number
- Serial number
- Current system UEFI and firmware levels
- Other pertinent information such as error messages and logs

As an alternative to calling Lenovo Support, you can go to https://support.lenovo.com/servicerequest 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 Lenovo service technicians can start working on your solution as soon as you have completed and submitted an Electronic Service Request.

Collecting service data

To clearly identify the root cause of a server issue or at the request of Lenovo Support, you might need collect service data that can be used for further analysis. Service data includes information such as event logs and hardware inventory.

Service data can be collected through the following tools:

- **Lenovo XClarity Provisioning Manager**

  Use the Collect Service Data function of Lenovo XClarity Provisioning Manager to collect system service data. You can collect existing system log data or run a new diagnostic to collect new data.
- **Lenovo XClarity Controller**

  You can use the Lenovo XClarity Controller web interface or the CLI to collect service data for the server. The file can be saved and sent to Lenovo Support.

  - For more information about using the web interface to collect service data, see the “Backing up the BMC configuration” section in the XCC documentation compatible with your server at https://pubs.lenovo.com/lxcc-overview/.
  - For more information about using the CLI to collect service data, see the “XCC `servicelog` command” section in the XCC documentation compatible with your server at https://pubs.lenovo.com/lxcc-overview/.

- **Lenovo XClarity Administrator**

  Lenovo XClarity Administrator can be set up to collect and send diagnostic files automatically to Lenovo Support 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.

  You can find more information about setting up automatic problem notification within the Lenovo XClarity Administrator at https://pubs.lenovo.com/lxca/admin_setupcallhome.

- **Lenovo XClarity Essentials OneCLI**

  Lenovo XClarity Essentials OneCLI has inventory application to collect service data. It can run both in-band and out-of-band. When running in-band within the host operating system on the server, OneCLI can collect information about the operating system, such as the operating system event log, in addition to the hardware service data.

  To obtain service data, you can run the `getinfor` command. For more information about running the `getinfor`, see https://pubs.lenovo.com/lxce-onecli/onecli_r_getinfor_command.

Contacting Support

You can contact Support to obtain help for your issue.

You can receive hardware service through a Lenovo Authorized Service Provider. To locate a service provider authorized by Lenovo to provide warranty service, go to https://datacentersupport.lenovo.com/serviceprovider and use filter searching for different countries. For Lenovo support telephone numbers, see https://datacentersupport.lenovo.com/supportphonelist for your region support details.