Cisco UCS Faults

This chapter provides information about the faults that may be raised in a Cisco UCS instance. This chapter contains the following sections:

- Adapter-Related Faults, page 2-2
- Chassis-Related Faults, page 2-8
- Chassis Slot-Related Faults, page 2-17
- Ethernet-Related Faults, page 2-18
- Fabric Extended (FEX)-Related Faults, page 2-20
- Fabric Interconnect-Related Faults, page 2-22
- Fan-Related Faults, page 2-30
- Fibre Channel-Related Faults, page 2-37
- Firmware-Related Faults, page 2-37
- I/O Module-Related Faults, page 2-41
- License-Related Faults, page 2-47
- Link-Related Faults, page 2-53
- Memory-Related Faults, page 2-54
- Pin Group-Related Faults, page 2-60
- Pool-Related Faults, page 2-61
- Port-Related Faults, page 2-64
- Port Channel-Related Faults, page 2-67
- Power Supply-Related Faults, page 2-68
- Processor-Related Faults, page 2-77
- Server-Related Faults, page 2-81
- Service Profile-Related Faults, page 2-105
- System Event Log-Related Faults, page 2-113
- Traffic Monitoring-related Faults, page 2-116
- Virtual Network Interface-Related Faults, page 2-117
- VLAN-Related Faults, page 2-120
- VSAN-Related Faults, page 2-121
Adapter-Related Faults

This section contains faults raised as a result of issues with the adapters in a server.

fltAdaptorExtEthIfMisConnect

Fault Code:F0625

Message
Adapter [id] eth interface [id] in server [id] mis-connected

Explanation
The network facing adaptor interface’s link is misconnected. The Cisco UCS Manager raises this fault when any of the following scenarios occur:

- UCSM detects a new connectivity between previously configured switch port/fex port and reported adaptor external interface.
- UCSM detects a misconnected link between a fabric interconnect/fex and its non-peer adaptor’s interface.

Recommended Action
If you see this fault, take the following actions:

Step 1 If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.
Step 2 Check whether the adaptor link is connected to a port belonging to its peer fabric interconnect/fabric extender.
Step 3 If connectivity seems correct, reacknowledge the server.
Step 4 Execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

Severity: warning
Cause: link-misconnected
mibFaultCode: 625
mibFaultName: fltAdaptorExtEthIfMisConnect
moClass: adaptor:ExtEthIf
Type: network

fltAdaptorExtEthIfMissing

Fault Code:F0775

Message
Connection to Adapter [id] eth interface [id] in server [id] missing
Chapter 2  Cisco UCS Faults

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**Explanation**
The network facing adaptor interface’s link is missing. The Cisco UCS Manager raises this fault when any of the following scenario occur:

- UCSM detects a missing connectivity between previously configured switch port/fex port and its previous peer adaptor external interface.

**Recommended Action**
If you see this fault, take the following actions:

---

**Step 1**
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

**Step 2**
Check whether there is any adaptor link misconnected to non-peer fabric interconnect/fabric extender

**Step 3**
If connectivity seems correct, reacknowledge the server

**Step 4**
Execute the `show tech-support` command and contact Cisco Technical Support.

---

**Fault Details**

- **Severity:** warning
- **Cause:** link-missing
- **mibFaultCode:** 775
- **mibFaultName:** fltAdaptorExtEthIfMissing
- **moClass:** adaptor:ExtEthIf
- **Type:** network

**fltAdaptorExtIfLink-down**

**Fault Code:** F0209

**Message**
Adapter uplink interface [id]/[id]/[id] link state: [linkState]Adapter uplink interface [chassisId]/[slotId]/[id]/[id] link state: [linkState]

**Explanation**
The network facing adaptor interface’s link is down. The Cisco UCS Manager raises this fault when any of the following scenarios occur:

- The UCSM can not establish and/or validate adaptor’s connectivity to any one of the fabric interconnects.
- Endpoint reports the link down (or vNIC down) event on the adaptor link
- Endpoint reports the errored link state (or errored vnic state) event on the adaptor link

**Recommended Action**
If you see this fault, take the following actions:

---

**Step 1**
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.
Step 2  Check whether the adaptor is connected and configured properly and it is running the recommended firmware version.

Step 3  If the server is stuck at discovery, decommision the server and reacknowledge the server slot.

Step 4  Execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

- **Severity:** major
- **Cause:** link-down
- **mibFaultCode:** 209
- **mibFaultName:** fltAdaptorExtIfLinkDown
- **moClass:** adaptor:ExtIf
- **Type:** network

fltAdaptorHostEthIfMisConnect

Fault Code: F0626

**Message**

Adapter [id] eth interface [id] in server [id] mis-connected

**Explanation**

network facing host interface link is misconnectedCisco UCS Manager raises this fault when any of the following scenario occur:

- UCSM detects a new connectivity between previously configured switch port and reported host ethernet interface.
- UCSM detects a misconnected link between host interface & its non-peer fabric interconnect.

**Recommended Action**

If you see this fault, take the following actions:

Step 1  If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2  Check whether the adaptor link is connected to a port belonging to its peer fabric interconnect.

Step 3  If connectivity seems correct, reacknowledge the server.

Step 4  Execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

- **Severity:** warning
- **Cause:** link-misconnected
- **mibFaultCode:** 626
- **mibFaultName:** fltAdaptorHostEthIfMisConnect
- **moClass:** adaptor:HostEthIf
- **Type:** network
fltAdaptorHostEthIfMissing

Fault Code:F0708

Message
Connection to Adapter [id] eth interface [id] in server [id] missing

Explanation
network facing host interface link is missingCisco UCS Manager raises this fault when any of the following scenario occur:
- UCSM detects a missing connectivity between previously configured switch port and its previous peer host interface

Recommended Action
If you see this fault, take the following actions:

Step 1 If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.
Step 2 Check whether there is any adaptor link misconnected to non-peer fabric interconnect
Step 3 If connectivity seems correct, reacknowledge the server
Step 4 Execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details
Severity: warning
Cause: link-missing
mibFaultCode: 708
mibFaultName: fltAdaptorHostEthIfMissing
moClass: adaptor:HostEthIf
Type: network

fltAdaptorHostIfLink-down

Fault Code:F0207

Message

Explanation
This fault typically occurs as a result of one of the following issues:
- The fabric interconnect is in the End-Host mode, and all uplink ports failed.
- The server port to which the adapter is pinned failed.
- A transient error that caused the link to fail.

Recommended Action
If you see this fault, take the following actions:
Step 1  If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2  If an associated port is disabled, enable the port.

Step 3  Reacknowledge the server with the adapter that has the failed link.

Step 4  If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

Severity: major
Cause: link-down
mibFaultCode: 207
mibFaultName: fltAdaptorHostIfLinkDown
moClass: adaptor:HostIf
Type: network

fltAdaptorUnitAdaptorReachability

Fault Code:F0206

Message
Adapter [id]/[id] is unreachable
Adapter [chassisId]/[slotId]/[id] is unreachable

Explanation
The Cisco UCS Manager cannot access the adapter. This fault typically occurs as a result of one of the following issues:

- The server does not have sufficient power.
- The I/O module is not functional.
- The adapter firmware has failed.
- The adapter is not functional.

Recommended Action
If you see this fault, take the following actions:

Step 1  If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2  Check the POST results for the server. In the Cisco UCS Manager GUI, you can access the POST results on the General tab for the server. In the Cisco UCS Manager CLI, access the POST results through the `show post` command under the scope for the server.

Step 3  In the Cisco UCS Manager, check the power state of the server.

Step 4  Verify that the physical server has the same power state.

Step 5  If the server is off, turn the server on.

Step 6  If the server is on, execute the `show tech-support` command and contact Cisco Technical Support.
Chapter 2  Cisco UCS Faults

Fault Details

Severity: info
Cause: connectivity-problem
mibFaultCode: 206
mibFaultName: fltAdaptorUnitAdaptorReachability
moClass: adaptor:Unit
Type: connectivity

fltAdaptorUnitMissing

Fault Code:F0203

Message

Explanation
The IO adaptor unit is missing The Cisco UCS Manager raises this fault when any of the following scenarios occur:

- Endpoint reports there is no mezz card plugged into an adaptor slot
- Endpoint can not detect/communicate to the mezz card plugged into an adaptor slot

Recommended Action
If you see this fault, take the following actions:

Step 1 If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.
Step 2 Make sure the mezz card is plugged into an adaptor slot in the server.
Step 3 Check whether the adaptor is connected and configured properly and it is running the recommended firmware version.
Step 4 Execute the show tech-support command and contact Cisco Technical Support.

Fault Details

Severity: warning
Cause: equipment-missing
mibFaultCode: 203
mibFaultName: fltAdaptorUnitMissing
moClass: adaptor:Unit
Type: equipment

fltAdaptorUnitUnidentifiable-fru

Fault Code:F0200

Message
Adapter [id] in server [id] has unidentified FRU Adapter [id] in server [chassisId]/[slotId] has unidentified FRU
Chassis-Related Faults

This section contains faults raised as a result of issues related to a chassis in the Cisco UCS instance.

fltEquipmentChassisIdentity

Fault Code:F0404

Message
Chassis [id] has a mismatch between FRU identity reported by Fabric/IOM vs. FRU identity reported by CMC

Explanation
This fault typically occurs when an I/O module has corrupted or has malformed FRU information.

Recommended Action
If you see this fault, take the following actions:

Step 1 If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.
Step 2 Execute the show tech-support command and contact Cisco Technical Support.
Chassis-Related Faults

Fault Details

- **Severity:** critical
- **Cause:** fru-problem
- **mibFaultCode:** 404
- **mibFaultName:** fltEquipmentChassisIdentity
- **moClass:** equipment:Chassis
- **Type:** equipment

**fltEquipmentChassisIdentity-unestablishable**

- **Fault Code:** F0543

**Message**

Chassis [id] has an invalid FRU

**Explanation**

This fault typically occurs because the Cisco UCS Manager has detected an unsupported chassis. For example, the model, vendor, or revision is not recognized.

**Recommended Action**

If you see this fault, take the following actions:

1. If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.
2. Verify that the capability catalog in the Cisco UCS Manager is up-to-date. If necessary, update the catalog.
3. If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

- **Severity:** major
- **Cause:** identity-unestablishable
- **mibFaultCode:** 543
- **mibFaultName:** fltEquipmentChassisIdentityUnestablishable
- **moClass:** equipment:Chassis
- **Type:** equipment

**fltEquipmentChassisInoperable**

- **Fault Code:** F0456

**Message**

Chassis [id] operability: [operability]

**Explanation**

This fault typically occurs for one of the following reasons:

- The fabric interconnect cannot communicate with a chassis. For a cluster configuration, this fault means that neither fabric interconnect can communicate with the chassis.
The chassis has an invalid FRU.

**Recommended Action**

If you see this fault, take the following actions:

---

**Step 1**  
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

**Step 2**  
In Cisco UCS Manager, acknowledge the chassis that raised the fault.

**Step 3**  
Physically unplug and re-plug the power cord to the chassis.

**Step 4**  
Verify that the I/O modules are functional.

**Step 5**  
If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

---

**Fault Details**

*Severity:* critical  
*Cause:* equipment-inoperable  
*mibFaultCode:* 456  
*mibFaultName:* `fltEquipmentChassisInoperable`  
*moClass:* `equipment:Chassis`  
*Type:* `equipment`

**fltEquipmentChassisPowerProblem**

**Fault Code:** F0408

**Message**

Power state on chassis [id] is [power]

**Explanation**

This fault typically occurs when the chassis fails to meet the minimal power requirements defined in the power policy or when one or more power supplies have failed.

**Recommended Action**

If you see this fault, take the following actions:

---

**Step 1**  
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

**Step 2**  
In Cisco UCS Manager, verify that all PSUs for the chassis are functional.

**Step 3**  
Verify that all PSUs are seated properly within the chassis and are powered on.

**Step 4**  
Physically unplug and re-plug the power cord to the chassis.

**Step 5**  
If all PSUs are operating at maximum capacity, either add more PSUs to the chassis or redefine the power policy in the Cisco UCS Manager.
Step 6  If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

**Severity:** major  
**Cause:** power-problem  
**mibFaultCode:** 408  
**mibFaultName:** fltEquipmentChassisPowerProblem  
**moClass:** equipment:Chassis  
**Type:** environmental

**fltEquipmentChassisSeeprom-inoperable**

**Fault Code:** F0733  
**Message**  
Device [id] SEEPROM operability: [seepromOperState]  

**Explanation**  
None set.

**Recommended Action**

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the *Release Notes for Cisco UCS Manager* and the *Cisco UCS Troubleshooting Guide*. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

**Severity:** critical  
**Cause:** equipment-inoperable  
**mibFaultCode:** 733  
**mibFaultName:** fltEquipmentChassisSeepromInoperable  
**moClass:** equipment:Chassis  
**Type:** equipment

**fltEquipmentChassisThermalThresholdCritical**

**Fault Code:** F0409  
**Message**  
Temperature on chassis [id] is [thermal]  

**Explanation**  
None set.
Chassis-Related Faults

Chapter 2 Cisco UCS Faults

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

- **Severity:** major
- **Cause:** thermal-problem
- **mibFaultCode:** 409
- **mibFaultName:** fltEquipmentChassisThermalThresholdCritical
- **moClass:** equipment:Chassis
- **Type:** environmental

**fltEquipmentChassisThermalThresholdNonCritical**

- **Fault Code:** F0410

**Message**

Temperature on chassis [id] is [thermal]

**Explanation**

None set.

**Recommended Action**

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

- **Severity:** minor
- **Cause:** thermal-problem
- **mibFaultCode:** 410
- **mibFaultName:** fltEquipmentChassisThermalThresholdNonCritical
- **moClass:** equipment:Chassis
- **Type:** environmental

**fltEquipmentChassisThermalThresholdNonRecoverable**

- **Fault Code:** F0411

**Message**

Temperature on chassis [id] is [thermal]

**Explanation**

None set.
Chassis-Related Faults

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

**Severity:** critical
**Cause:** thermal-problem
**mibFaultCode:** 411
**mibFaultName:** fltEquipmentChassisThermalThresholdNonRecoverable
**moClass:** equipment:Chassis
**Type:** environmental

fltEquipmentChassisUnacknowledged

Fault Code:F0400

Message
Chassis [id] connectivity configuration: [configState]

Explanation
This fault typically occurs when or more of the I/O module links from the chassis are unacknowledged.

Recommended Action
If you see this fault, take the following actions:

---

**Step 1**
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

**Step 2**
Check the state of the I/O module links.

**Step 3**
Reacknowledge the chassis.

**Step 4**
If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

---

Fault Details

**Severity:** warning
**Cause:** equipment-unacknowledged
**mibFaultCode:** 400
**mibFaultName:** fltEquipmentChassisUnacknowledged
**moClass:** equipment:Chassis
**Type:** connectivity

fltEquipmentChassisUnsupportedConnectivity

Fault Code:F0399

Message
Current connectivity for chassis [id] does not match discovery policy: [configState]
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### Chassis-Related Faults

#### Explanation

This fault typically occurs when the current connectivity for a chassis does not match the configuration in the chassis discovery policy.

#### Recommended Action

If you see this fault, take the following actions:

1. **Step 1** If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.
2. **Step 2** Verify that the correct number of links are configured in the chassis discovery policy.
3. **Step 3** Check the state of the I/O module links.
4. **Step 4** Reacknowledge the chassis.
5. **Step 5** If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

#### Fault Details

- **Severity:** major
- **Cause:** unsupported-connectivity-configuration
- **mibFaultCode:** 399
- **mibFaultName:** fltEquipmentChassisUnsupportedConnectivity
- **moClass:** equipment:Chassis
- **Type:** connectivity

---

### fltFabricComputeSlotEpMisplacedInChassisSlot

#### Fault Code:F0156

**Message**

Server, vendor([vendor]), model([model]), serial([serial]) in slot [chassisId]/[slotId] presence: [presence]

**Explanation**

This fault typically occurs when the Cisco UCS Manager detects a server in a chassis slot that does not match what was previously equipped in the slot.

#### Recommended Action

If you see this fault, take the following actions:

1. **Step 1** If the previous server was intentionally removed and a new one inserted, reacknowledge the server.
2. **Step 2** Execute the `show tech-support` command and contact Cisco Technical Support.

#### Fault Details

- **Severity:** warning
- **Cause:** server-moved
- **mibFaultCode:** 156
Chassis-Related Faults

fltFabricComputeSlotEpServerIdentificationProblem

Fault Code: F0157

Message
Problem identifying server in slot [chassisId]/[slotId]

Explanation
This fault typically occurs when the Cisco UCS Manager encountered a problem identifying the server in a chassis slot.

Recommended Action
If you see this fault, take the following actions:

---

Step 1  Remove and reinsert the server.
Step 2  Reacknowledge the server.
Step 3  Execute the show tech-support command and contact Cisco Technical Support.
---

Fault Details

Severity: warning
Cause: server-identification-problem
mibFaultCode: 157
mibFaultName:fltFabricComputeSlotEpServerIdentificationProblem
moClass: fabric:ComputeSlotEp
Type: equipment

fltMgmtEntityChassis-1-SEEPROM-error

Fault Code: F0453

Message
Chassis [chassis1], error accessing SEEPROM

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details

Severity: warning
Chassis-Related Faults

Chapter 2 Cisco UCS Faults

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fltMgmtEntityChassis-2-SEEPROM error

Fault Code:F0454

Message
Chassis [chassis2], error accessing SEEPROM

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: warning
Cause: chassis-seeprom-error
mibFaultCode: 454
mibFaultName: fltMgmtEntityChassis2SEEPROMError
moClass: mgmt:Entity
Type: management

fltMgmtEntityChassis-3-SEEPROM error

Fault Code:F0455

Message
Chassis [chassis3], error accessing SEEPROM

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: warning
Cause: chassis-seeprom-error
mibFaultCode: 455
mibFaultName: fltMgmtEntityChassis3SEEPROMError
moClass: mgmt:Entity
Type: management
Chapter 2      Cisco UCS Faults

Chassis Slot-Related Faults

This section contains faults raised as a result of issues with a server slot in a chassis.

fltFabricComputeSlotEpMisplacedInChassisSlot

Fault Code:F0156

Message
Server, vendor([vendor]), model([model]), serial([serial]) in slot [chassisId]/[slotId] presence: [presence]

Explanation
This fault typically occurs when Cisco UCS Manager detects a server in a chassis slot that does not match what was previously equipped in the slot.

Recommended Action
If you see this fault, take the following actions:

Step 1
If the previous server was intentionally removed and a new one inserted, reacknowledge the server.

Step 2
If the above actions did not resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: warning
Cause: server-moved
mibFaultCode: 156
mibFaultName: f1tFabricComputeSlotEpMisplacedInChassisSlot
moClass: fabric:ComputeSlotEp
Type: equipment

fltFabricComputeSlotEpServerIdentificationProblem

Fault Code:F0157

Message
Problem identifying server in slot [chassisId]/[slotId]

Explanation
This fault typically occurs when Cisco UCS Manager encountered a problem identifying the server in a chassis slot.

Recommended Action
If you see this fault, take the following actions:
Ethernet-Related Faults

This section contains faults raised as a result of issues with the Ethernet configuration for a vNIC.

**fltEtherServerIntIoHardware-failure**

**Fault Code:** F0458

**Message**

**Explanation**
None set.

**Recommended Action**
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**
- **Severity:** major
- **Cause:** interface-failed
- **mibFaultCode:** 458
- **mibFaultName:** fltEtherServerIntFIoHardwareFailure
- **moClass:** ether:ServerIntFIo
- **Type:** network
fltFabricEthEstcPcEpDown

Fault Code:F0777

Message
[type] Member [slotId]/[portId] of Port-Channel [portId] on fabric interconnect [id] is down, membership: [membership]

Explanation
This fault typically occurs when a member-port in a Ethernet port-channel is down.

Recommended Action
If you see this fault, take the following action:

Step 1
Check the link connectivity on the upstream Ethernet switch.

Fault Details
- **Severity**: major
- **Cause**: membership-down
- **mibFaultCode**: 777
- **mibFaultName**: fltFabricEthEstcPcEpDown
- **moClass**: fabric:EthEstcPcEp
- **Type**: network

fltFabricEthLanPcEpDown

Fault Code:F0727

Message
[type] Member [slotId]/[portId] of Port-Channel [portId] on fabric interconnect [id] is down, membership: [membership]

Explanation
This fault typically occurs when a member-port in a Ethernet port-channel is down.

Recommended Action
If you see this fault, take the following action:

Step 1
Check the link connectivity on the upstream Ethernet switch.

Fault Details
- **Severity**: major
- **Cause**: membership-down
- **mibFaultCode**: 727
- **mibFaultName**: fltFabricEthLanPcEpDown
- **moClass**: fabric:EthLanPcEp
- **Type**: network
fabricExtended (FEX)-Related Faults

fltVnicEtherConfig-failed

Fault Code:F0169

Message
Eth vNIC [name], service profile [name] failed to apply configuration

Explanation
This fault typically occurs when the Cisco UCS Manager could not place the vNIC on the vCon.

Recommended Action
If you see this fault, take the following actions:

- Step 1: Verify that the server was successfully discovered.
- Step 2: Verify that the correct type of adapters are installed on the server.
- Step 3: Confirm that the vCon assignment is correct.
- Step 4: If the above steps do not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details
- Severity: minor
- Cause: configuration-failed
- mibFaultCode: 169
- mibFaultName: fltVnicEtherConfigFailed
- moClass: vnic:Ether
- Type: configuration

Fabric Extended (FEX)-Related Faults

This section contains faults raised as a result of issues related to a fabric extended module in the Cisco UCS instance.

fltEquipmentFexIdentity

Fault Code:F0703

Message
Fex [id] has a malformed FRU

Explanation
This fault typically occurs when an fex has corrupted or has malformed FRU information.

Recommended Action
If you see this fault, take the following actions:
Chapter 2  Cisco UCS Faults

Fabric Extended (FEX)-Related Faults

Step 1  If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2  Verify that the capability catalog in the Cisco UCS Manager is up-to-date. If necessary, update the catalog.

Step 3  Execute the **show tech-support** command and contact Cisco Technical Support.

---

**Fault Details**

- **Severity:** critical
- **Cause:** fru-problem
- **mibFaultCode:** 703
- **mibFaultName:** fltEquipmentFexIdentity
- **moClass:** equipment:Fex
- **Type:** equipment

**fltEquipmentFexIdentity-unestablishable**

**Fault Code:** F0778

**Message**

Fex [id] has an invalid FRU

**Explanation**

This fault typically occurs because the Cisco UCS Manager has detected an unsupported chassis. For example, the model, vendor, or revision is not recognized.

**Recommended Action**

If you see this fault, take the following actions:

---

Step 1  If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2  Verify that the capability catalog in the Cisco UCS Manager is up-to-date. If necessary, update the catalog.

Step 3  If the above actions did not resolve the issue, execute the **show tech-support** command and contact Cisco Technical Support.

---

**Fault Details**

- **Severity:** major
- **Cause:** identity-unestablishable
- **mibFaultCode:** 778
- **mibFaultName:** fltEquipmentFexIdentityUnestablishable
- **moClass:** equipment:Fex
- **Type:** equipment
**fltEquipmentFexPost-failure**

**Fault Code:** F0702  

**Message**  
fex [id] POST failure

**Explanation**  
This fault typically occurs when the fex encounters errors during the Power On Self Test (POST). The impact of this fault varies depending on what errors were encountered during POST.

**Recommended Action**  
If you see this fault, take the following actions:

**Step 1**  
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

**Step 2**  
Check the POST results for the fex. In the Cisco UCS Manager GUI, you can access the POST results from the General tab for the fex. In the Cisco UCS Manager CLI, you can access the POST results through the `show post` command under the scope for the fex.

**Step 3**  
Reboot the fex.

**Step 4**  
If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**

- **Severity:** major  
- **Cause:** equipment-problem  
- **mibFaultCode:** 702  
- **mibFaultName:** fltEquipmentFexPostFailure  
- **moClass:** equipment:Fex  
- **Type:** equipment

---

**Fabric Interconnect-Related Faults**

This section contains faults raised as a result of issues with a fabric interconnect.

**fltEtherSwitchIntFloSatellite-wiring-numbers-unexpected**

**Fault Code:** F0440  

**Message**  
Chassis discovery policy conflict: Link IOM [chassisId]/[slotId]/[portId] to fabric interconnect [switchId]:[peerSlotId]/[peerPortId] not configured

**Explanation**  
Chassis discovery policy conflict with present iom uplinks. Cisco UCS Manager raises this fault when any of the following scenario occur:
UCSM detects number of present IOM uplinks are less than that defined in Chassis discovery policy link-action

**Recommended Action**
If you see this fault, take the following actions:

**Step 1**
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

**Step 2**
Make sure that number of present IOM uplinks are at least same as that defined in chassis discovery policy link-action. Configure corresponding sever ports.

**Step 3**
Re-acknowledge the chassis to acknowledge the mismatched number of present links.

**Step 4**
Execute the `show tech-support` command and contact Cisco Technical Support.

---

**Fault Details**

- **Severity:** info
- **Cause:** unexpected-number-of-links
- **mibFaultCode:** 440
- **mibFaultName:** fltEtherSwitchIntFioSatelliteWiringNumbersUnexpected
- **moClass:** ether:SwitchIntFIo
- **Type:** connectivity

---

**fltEtherSwitchIntFloSatellite-wiring-problem**

**Fault Code:** F0368

**Message**
Invalid connection between IOM port [chassisId]/[slotId]/[portId] and fabric interconnect [switchId]:[peerSlotId]/[peerPortId]

**Explanation**
There is a satellite wiring problem on network facing interface of IO-moduleThe Cisco UCS Manager raises this fault when any of the following scenario occur:

- The UCSM detects that at least one IOM uplink is misconnected to one of the (fabric interconnect) switch port

**Recommended Action**
If you see this fault, take the following actions:

**Step 1**
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

**Step 2**
Verify the fabric interconnect-chassis topology. Make sure each IO Module is connected to only one fabric interconnect

**Step 3**
Ensure that the links are plugged in properly and re-acknowledge the chassis.

**Step 4**
Execute the `show tech-support` command and contact Cisco Technical Support.
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**Fault Details**

- **Severity:** info
- **Cause:** satellite-mis-connected
- **mibFaultCode:** 368
- **mibFaultName:** fltEtherSwitchIntFIoSatelliteWiringProblem
- **moClass:** ether:SwitchIntFIo
- **Type:** connectivity

fltExtmgmtIfMgmtifdown

**Fault Code:** F0736

**Message**

Management interface on Fabric Interconnect [id] is [operState]

**Explanation**

External management interface on fabric interconnect is operationally down. The Cisco UCS Manager raises this fault when any of the following scenario occur:

- Endpoint(switch/fabric interconnect) reports that operational state of external management interface is down.

**Recommended Action**

If you see this fault, take the following actions:

---

**Step 1**

If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

**Step 2**

Check the state transitions of external management interface on fabric interconnect. Check the link connectivity.

**Step 3**

Execute the `show tech-support` command and contact Cisco Technical Support.

---

**Fault Details**

- **Severity:** major
- **Cause:** mgmtif-down
- **mibFaultCode:** 736
- **mibFaultName:** fltExtmgmtIfMgmtifdown
- **moClass:** extmgmt:If
- **Type:** management

fltMgmtEntityDegraded

**Fault Code:** F0293

**Message**

Fabric Interconnect [id], HA Cluster interconnect link failure

**Explanation**

None set.
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Chapter 2      Cisco UCS Faults

Fabric Interconnect-Related Faults

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: major
Cause: link-down
mibFaultCode: 293
mibFaultName: fltMgmtEntityDegraded
moClass: mgmt:Entity
Type: network

fltMgmtEntityDown

Fault Code:F0294

Message
Fabric Interconnect [id], HA Cluster interconnect total link failure

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: critical
Cause: link-down
mibFaultCode: 294
mibFaultName: fltMgmtEntityDown
moClass: mgmt:Entity
Type: network

fltMgmtEntityElection-failure

Fault Code:F0428

Message
Fabric Interconnect [id], election of primary management instance has failed

Explanation
None set.
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Chapter 2  Cisco UCS Faults

Fabric Interconnect-Related Faults

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: critical
Cause: election-failure
mibFaultCode: 428
mibFaultName: fltMgmtEntityElectionFailure
moClass: mgmt:Entity
Type: management

fltMgmtEntityHa-not-ready

Fault Code:F0429

Message
Fabric Interconnect [id], HA functionality not ready

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: major
Cause: ha-not-ready
mibFaultCode: 429
mibFaultName: fltMgmtEntityHaNotReady
moClass: mgmt:Entity
Type: management

fltMgmtEntityManagement-services-failure

Fault Code:F0451

Message
Fabric Interconnect [id], management services have failed

Explanation
None set.
Chapter 2 Cisco UCS Faults

Fabric Interconnect-Related Faults

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Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details

**Severity:** critical  
**Cause:** management-services-failure  
**mibFaultCode:** 451  
**mibFaultName:** fltMgmtEntityManagementServicesFailure  
**moClass:** mgmt:Entity  
**Type:** management

fltMgmtEntityManagement-services-unresponsive

**Fault Code:** F0452

**Message**
Fabric Interconnect [id], management services are unresponsive

**Explanation**
None set.

**Recommended Action**
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details

**Severity:** critical  
**Cause:** management-services-unresponsive  
**mibFaultCode:** 452  
**mibFaultName:** fltMgmtEntityManagementServicesUnresponsive  
**moClass:** mgmt:Entity  
**Type:** management

fltMgmtEntityVersion-incompatible

**Fault Code:** F0430

**Message**
Fabric Interconnect [id], management services, incompatible versions

**Explanation**
None set.
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Chapter 2 Cisco UCS Faults

Fabric Interconnect-Related Faults

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: critical
Cause: version-incompatible
mibFaultCode: 430
mibFaultName: fltMgmtEntityVersionIncompatible
moClass: mgmt:Entity
Type: management

fltNetworkElementInoperable

Fault Code:F0291

Message
Fabric Interconnect [id] operability: [operability]

Explanation
The IO fabric interconnect is inoperable. The Cisco UCS Manager raises this fault when any of the following scenarios occur:

- The switch cluster controller reports that the membership state of the fabric interconnect is down.

Recommended Action
If you see this fault, take the following actions:

Step 1 If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2 Make sure that both the fabric interconnects in the HA cluster are running the same switch software versions.

Step 3 Verify that the fabric interconnect is running the switch software version compatible to the UCS Manager software version.

Step 4 Execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: critical
Cause: equipment-inoperable
mibFaultCode: 291
mibFaultName: fltNetworkElementInoperable
moClass: network:Element
Type: equipment
fltStorageItemCapacityExceeded

Fault Code:F0182

Message
Disk usage for partition [name] on fabric interconnect [id] exceeded 70%

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: minor
Cause: capacity-exceeded
mibFaultCode: 182
mibFaultName: fltStorageItemCapacityExceeded
moClass: storage:Item
Type: environmental

fltStorageItemCapacityWarning

Fault Code:F0183

Message
Disk usage for partition [name] on fabric interconnect [id] exceeded 90%

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: major
Cause: capacity-exceeded
mibFaultCode: 183
mibFaultName: fltStorageItemCapacityWarning
moClass: storage:Item
Type: environmental
Fan-Related Faults

This section contains faults raised as a result of issues related to a fan or fan module in the Cisco UCS instance.

**fltEquipmentFanDegraded**

**Fault Code:** F0371

**Message**

**Explanation**
None set.

**Recommended Action**
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the *Release Notes for Cisco UCS Manager* and the *Cisco UCS Troubleshooting Guide*. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**
- **Severity:** minor
- **Cause:** equipment-degraded
- **mibFaultCode:** 371
- **mibFaultName:** fltEquipmentFanDegraded
- **moClass:** equipment:Fan
- **Type:** equipment

**fltEquipmentFanInoperable**

**Fault Code:** F0373

**Message**

**Explanation**
None set.

**Recommended Action**
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the *Release Notes for Cisco UCS Manager* and the *Cisco UCS Troubleshooting Guide*. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.
Fault Details
Severity: major
Cause: equipment-inoperable
mibFaultCode: 373
mibFaultName: fltEquipmentFanInoperable
moClass: equipment:Fan
Type: equipment

fltEquipmentFanMissing

Fault Code:F0434

Message

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: warning
Cause: equipment-missing
mibFaultCode: 434
mibFaultName: fltEquipmentFanMissing
moClass: equipment:Fan
Type: equipment

fltEquipmentFanModuleDegraded

Fault Code:F0480

Message

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.
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Chapter 2  Cisco UCS Faults

Fan-Related Faults

Fault Details

Severity: minor
Cause: equipment-degraded
mibFaultCode: 480
mibFaultName: fltEquipmentFanModuleDegraded
moClass: equipment:FanModule
Type: equipment

fltEquipmentFanModuleIdentity

Fault Code:F0406

Message
Fan Module [id]/[tray]-[id] has a malformed FRU
Module [id]/[tray]-[id] has a malformed FRU

Explanation
This fault typically occurs when fan module has corrupted or has malformed FRU information.

Recommended Action
If you see this fault, take the following actions:

Step 1
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2
Execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

Severity: critical
Cause: fru-problem
mibFaultCode: 406
mibFaultName: fltEquipmentFanModuleIdentity
moClass: equipment:FanModule
Type: equipment

fltEquipmentFanModuleInoperable

Fault Code:F0794

Message
Fan [id] in server [id] operability: [operability]

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.
Fan-Related Faults

**fltEquipmentFanModuleInoperable**

**Fault Code:** F0377

**Message**
Fan module [id]/[tray]-[id] presence: [presence] Fan module [id]/[tray]-[id] presence: [presence]

**Explanation**
None set.

**Recommended Action**
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the *Release Notes for Cisco UCS Manager* and the *Cisco UCS Troubleshooting Guide*. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**
- **Severity:** major
- **Cause:** equipment-inoperable
- **mibFaultCode:** 794
- **mibFaultName:** fltEquipmentFanModuleInoperable
- **moClass:** equipment:FanModule
- **Type:** equipment

**fltEquipmentFanModuleMissing**

**Fault Code:** F0377

**Message**
Fan module [id]/[tray]-[id] presence: [presence] Fan module [id]/[tray]-[id] presence: [presence]

**Explanation**
None set.

**Recommended Action**
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the *Release Notes for Cisco UCS Manager* and the *Cisco UCS Troubleshooting Guide*. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**
- **Severity:** warning
- **Cause:** equipment-missing
- **mibFaultCode:** 377
- **mibFaultName:** fltEquipmentFanModuleMissing
- **moClass:** equipment:FanModule
- **Type:** equipment

**fltEquipmentFanModuleThermalThresholdCritical**

**Fault Code:** F0382

**Message**

**Explanation**
None set.

**Recommended Action**
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the *Release Notes for Cisco UCS Manager* and the *Cisco UCS Troubleshooting Guide*. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**
- **Severity:** major
- **Cause:** thermal-problem
Fan-Related Faults

mibFaultCode: 382
mibFaultName: fltEquipmentFanModuleThermalThresholdCritical
moClass: equipment:FanModule
Type: environmental

fltEquipmentFanModuleThermalThresholdNonCritical

Fault Code:F0380

Message

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: minor
Cause: thermal-problem
mibFaultCode: 380
mibFaultName: fltEquipmentFanModuleThermalThresholdNonCritical
moClass: equipment:FanModule
Type: environmental

fltEquipmentFanModuleThermalThresholdNonRecoverable

Fault Code:F0384

Message

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: critical
Cause: thermal-problem
mibFaultCode: 384
mibFaultName: fltEquipmentFanModuleThermalThresholdNonRecoverable
moClass: equipment:FanModule
Type: environmental
Fan-Related Faults

fltEquipmentFanPerfThresholdCritical

**Fault Code:** F0396

**Message**

**Explanation**
None set.

**Recommended Action**
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**

- **Severity:** info
- **Cause:** performance-problem
- **mibFaultCode:** 396
- **mibFaultName:** fltEquipmentFanPerfThresholdCritical
- **moClass:** equipment:Fan
- **Type:** equipment

fltEquipmentFanPerfThresholdLowerNonRecoverable

**Fault Code:** F0484

**Message**

**Explanation**
None set.

**Recommended Action**
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**

- **Severity:** critical
- **Cause:** performance-problem
- **mibFaultCode:** 484
- **mibFaultName:** fltEquipmentFanPerfThresholdLowerNonRecoverable
- **moClass:** equipment:Fan
- **Type:** equipment
Fan-Related Faults

Chapter 2  Cisco UCS Faults

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fltEquipmentFanPerfThresholdNonCritical

Fault Code:F0395

Message

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details

fltEquipmentFanPerfThresholdNonRecoverable

Fault Code:F0397

Message

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Fibre Channel-Related Faults

This section contains the following faults raised as a result of issues with the Fibre Channel configuration for a vNIC.

### fltVnicFcConfig-failed

**Fault Code:** F0170

**Message**

FC vHBA [name], service profile [name] failed to apply configuration

**Explanation**

This fault typically occurs when the Cisco UCS Manager could not place the vHBA on the vCon.

**Recommended Action**

If you see this fault, take the following actions:

1. Verify that the server was successfully discovered.
2. Verify that the correct type of adapters are installed on the server.
3. Confirm that the vCon assignment is correct.
4. If the above steps do not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**

- **Severity:** minor
- **Cause:** configuration-failed
- **mibFaultCode:** 170
- **mibFaultName:** fltVnicFcConfigFailed
- **moClass:** vnic:Fc
- **Type:** configuration

Firmware-Related Faults

This section contains faults raised as a result of issues related to a firmware upgrade or to running firmware on a component in the Cisco UCS instance.

### fltEquipmentIOCardAutoUpgradingFirmware

**Fault Code:** F0435

**Message**

IOM [chassisId]/[id] ([switchId]) is auto upgrading firmware
Firmware-Related Faults

Chapter 2      Cisco UCS Faults

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Explanation
This fault typically occurs when an I/O module is auto upgrading.

Recommended Action
If you see this fault, take the following actions:

Step 1
If IOM version and switch version are not the same, then wait for some time for auto-upgrade to complete.

Step 2
Auto-upgrade happens when IOM version is no longer compatible with Switch version.

Step 3
Fault will be cleared automatically when IOM upgrade is completed.

Step 4
If you see the fault even after IOM Overall Status changes to operable, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

Severity: major
Cause: auto-firmware-upgrade
mibFaultCode: 435
mibFaultName: fltEquipmentIOCardAutoUpgradingFirmware
moClass: equipment:IOCard
Type: connectivity

fltEquipmentIOCardFirmwareUpgrade

Fault Code:F0398

Message
Chassis controller in IOM [chassisId]/[id] ([switchId]) firmware upgrade problem: [upgradeStatus]

Explanation
This fault typically occurs when an IOM upgrade fails.

Recommended Action
If you see this fault, take the following actions:

Step 1
Check FSM status under IOM and check if the FSM upgrade was completed successfully or failed.

Step 2
If FSM failed, then look for the error message in the FSM.

Step 3
If the error message is self-explanatory, eg: No connection to end point or link down etc, check the physical connectivity.

Step 4
If the fault persists, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

Severity: major
Cause: firmware-upgrade-problem
mibFaultCode: 398
mibFaultName: fltEquipmentIOCardFirmwareUpgrade
Firmware-Related Faults

fltFirmwareBootUnitCantBoot

Fault Code:F0471

Message
unable to boot the startup image. End point booted with backup image

Explanation
This fault typically occurs when the startup image is corrupted/invalid and end point cannot boot from startup image.

Recommended Action
If you see this fault, take the following actions:

Step 1
Go to FSM tab for the end point on which the fault is raised and check for error description.

Step 2
If FSM failed, then look for the error message in the FSM.

Step 3
Error message usually tells why end point was not able to boot the startup image. Eg: Something like Bad-Image or checksum failed etc.

Step 4
If the fault persists, execute the **show tech-support** command and contact Cisco Technical Support.

Fault Details

**Severity:** major

**Cause:** image-cannot-boot

**mibFaultCode:** 471

**mibFaultName:** fltFirmwareBootUnitCantBoot

**moClass:** firmware:BootUnit

**Type:** management

fltFirmwarePackItemImageMissing

Fault Code:F0436

Message
[type] image with vendor [hwVendor], model [hwModel] and version [version] is deleted

Explanation
This fault typically occurs when the image the pack item is referring to is not present.

Recommended Action
If you see this fault, take the following actions:

Step 1
Go to Firmware Management-Images tab in GUI and check if the image which is reported as missing is available or not.
Firmware-Related Faults

Step 2 If Image is present, check for model and vendor of the image by selecting the image.

Step 3 If the image for specified model and vendor is not present, then download that image or bundle from cisco.

Step 4 If the image is present and the fault persists, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

Severity: major
Cause: image-deleted
mibFaultCode: 436
mibFaultName: fltFirmwarePackItemImageMissing
moClass: firmware:PackItem
Type: management

fltFirmwareUpdatableImageUnusable

Fault Code:F0470

Message

backup image is unusable. reason: [operStateQual]

Explanation

This fault typically occurs when the backup image is unusable.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check out the reason specified for the backup image unusable.

Step 2 If it is bad-image/corrupted-image, try downloading the image again from Cisco site..

Step 3 If the image is present and the fault persists, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

Severity: major
Cause: image-unusable
mibFaultCode: 470
mibFaultName: fltFirmwareUpdatableImageUnusable
moClass: firmware:Updatable
Type: management
Chapter 2  Cisco UCS Faults

I/O Module-Related Faults

This section contains faults raised as a result of issues related to an I/O module in the Cisco UCS instance.

**fltEquipmentIOCardIdentity**

- **Fault Code:** F0405
- **Message**
  
  [side] IOM [chassisId]/[id] ([switchId]) has a malformed FRU

- **Explanation**
  This fault typically occurs when an I/O module has corrupted or has malformed FRU information.

- **Recommended Action**
  If you see this fault, take the following actions:

  1. **Step 1**  
     If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

  2. **Step 2**  
     Execute the `show tech-support` command and contact Cisco Technical Support.

- **Fault Details**
  - **Severity:** critical
  - **Cause:** fru-problem
  - **mibFaultCode:** 405
  - **mibFaultName:** fltEquipmentIOCardIdentity
  - **moClass:** equipment:IOCard
  - **Type:** equipment

**fltEquipmentIOCardInaccessible**

- **Fault Code:** F0478
- **Message**
  
  [side] IOM [chassisId]/[id] ([switchId]) is inaccessible

- **Explanation**
  This fault typically occurs because an I/O module has lost connection to the fabric interconnects. In a cluster configuration, the chassis fails over to the other I/O module. For a standalone configuration, the chassis associated with the I/O module loses network connectivity. This is a critical fault because it can result in the loss of network connectivity and disrupt data traffic through the I/O module.

- **Recommended Action**
  If you see this fault, take the following actions:
Step 1 If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2 Wait a few minutes to see if the fault clears. This is typically a temporary issue, and can occur after a firmware upgrade.

Step 3 If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**

*Severity*: critical  
*Cause*: equipment-inaccessible  
*mibFaultCode*: 478  
*mibFaultName*: fltEquipmentIOCardInaccessible  
*moClass*: equipment:IOCard  
*Type*: equipment

fltEquipmentIOCardPeerDisconnected

**Fault Code:** F0403

**Message**

IOM [chassisId]/[id] ([switchId]) peer connectivity: [peerCommStatus]

**Explanation**

This fault typically occurs when an I/O module is unable to communicate with its peer I/O module.

**Recommended Action**

If you see this fault, take the following actions:

**Step 1** If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

**Step 2** Wait a few minutes to see if the fault clears. This is typically a temporary issue, and can occur after a firmware upgrade.

**Step 3** If the fault does not clear after a few minutes, remove and reinsert the I/O module.

**Step 4** If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**

*Severity*: warning  
*Cause*: equipment-disconnected  
*mibFaultCode*: 403  
*mibFaultName*: fltEquipmentIOCardPeerDisconnected  
*moClass*: equipment:IOCard  
*Type*: connectivity
fltEquipmentIOCardPost-failure

Fault Code: F0481

Message
[sid] IOM [chassisId]/[id] ([switchId]) POST failure

Explanation
This fault typically occurs when the I/O module encounters errors during the Power On Self Test (POST). The impact of this fault varies depending on what errors were encountered during POST.

Recommended Action
If you see this fault, take the following actions:

<table>
<thead>
<tr>
<th>Step 1</th>
<th>If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 2</td>
<td>Check the POST results for the I/O module. In Cisco UCS Manager GUI, you can access the POST results from the General tab for the I/O module. In Cisco UCS Manager CLI, you can access the POST results through the <code>show post</code> command under the scope for the I/O module.</td>
</tr>
<tr>
<td>Step 3</td>
<td>Reboot the I/O module.</td>
</tr>
<tr>
<td>Step 4</td>
<td>If the above actions did not resolve the issue, execute the <code>show tech-support</code> command and contact Cisco Technical Support.</td>
</tr>
</tbody>
</table>

Fault Details
- Severity: major
- Cause: equipment-problem
- mibFaultCode: 481
- mibFaultName: fttEquipmentIOCardPostFailure
- moClass: equipment:IOCard
- Type: equipment

fltEquipmentIOCardRemoved

Fault Code: F0376

Message
[sid] IOM [chassisId]/[id] ([switchId]) is removed

Explanation
This fault typically occurs because an I/O module is removed from the chassis. In a cluster configuration, the chassis fails over to the other I/O module. For a standalone configuration, the chassis associated with the I/O module loses network connectivity. This is a critical fault because it can result in the loss of network connectivity and disrupt data traffic through the I/O module.

Recommended Action
If you see this fault, take the following actions:
I/O Module-Related Faults

Step 1
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2
Re-insert the I/O module and configure the fabric-interconnect ports connected to it as server ports and wait a few minutes to see if the fault clears.

Step 3
If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

**Severity:** critical
**Cause:** equipment-removed
**mibFaultCode:** 376
**mibFaultName:** fltEquipmentIOCardRemoved
**moClass:** equipment:IOCard
**Type:** equipment

**fltEquipmentIOCardThermalProblem**

**Fault Code:** F0379

**Message**
[sid] IOM [chassisId]/[id] ([switchId]) operState: [operState]

**Explanation**
None set.

**Recommended Action**
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

**Severity:** major
**Cause:** thermal-problem
**mibFaultCode:** 379
**mibFaultName:** fltEquipmentIOCardThermalProblem
**moClass:** equipment:IOCard
**Type:** environmental

**fltEquipmentIOCardThermalThresholdCritical**

**Fault Code:** F0730

**Message**
[sid] IOM [chassisId]/[id] ([switchId]) temperature: [thermal]

**Explanation**
None set.
### Cisco UCS Faults

#### I/O Module-Related Faults

**Recommended Action**

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the *Release Notes for Cisco UCS Manager* and the *Cisco UCS Troubleshooting Guide*. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**

- **Severity**: major
- **Cause**: thermal-problem
- **mibFaultCode**: 730
- **mibFaultName**: fltEquipmentIOCardThermalThresholdCritical
- **moClass**: equipment:IOCard
- **Type**: environmental

#### FltEquipmentIOCardThermalThresholdNonCritical

**Fault Code**: F0729

**Message**

[sid] IOM [chassisId]/[id] ([switchId]) temperature: [thermal]

**Explanation**

None set.

**Recommended Action**

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the *Release Notes for Cisco UCS Manager* and the *Cisco UCS Troubleshooting Guide*. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**

- **Severity**: minor
- **Cause**: thermal-problem
- **mibFaultCode**: 729
- **mibFaultName**: fltEquipmentIOCardThermalThresholdNonCritical
- **moClass**: equipment:IOCard
- **Type**: environmental

#### FltEquipmentIOCardThermalThresholdNonRecoverable

**Fault Code**: F0731

**Message**

[sid] IOM [chassisId]/[id] ([switchId]) temperature: [thermal]

**Explanation**

None set.
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**Recommended Action**

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the *Release Notes for Cisco UCS Manager* and the *Cisco UCS Troubleshooting Guide*. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**

**Severity:** critical  
**Cause:** thermal-problem  
**mibFaultCode:** 731  
**mibFaultName:** fltEquipmentIOCardThermalThresholdNonRecoverable  
**moClass:** equipment:IOCard  
**Type:** environmental

---

**fltEquipmentIOCardUnacknowledged**

**Fault Code:** F0402

**Message**

IOM [chassisId]/[id] ([switchId]) connectivity configuration: [configState]

**Explanation**

This fault typically occurs when an I/O module is unacknowledged.

**Recommended Action**

If you see this fault, take the following actions:

**Step 1**

If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

**Step 2**

Check the state of the I/O module links.

**Step 3**

Reacknowledge the chassis.

**Step 4**

If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

---

**Fault Details**

**Severity:** warning  
**Cause:** equipment-unacknowledged  
**mibFaultCode:** 402  
**mibFaultName:** fltEquipmentIOCardUnacknowledged  
**moClass:** equipment:IOCard  
**Type:** connectivity

---

**fltEquipmentIOCardUnsupportedConnectivity**

**Fault Code:** F0401

**Message**

IOM [chassisId]/[id] ([switchId]) current connectivity does not match discovery policy: [configState]
License-Related Faults

This section contains faults raised as a result of issues related to licensing.

fltLicenseFileBadLicenseFile

Fault Code:F0677

Message
license file [name] on fabric-interconnect [scope] can not be installed

Explanation
Installation of a license file on this fabric interconnect has failed. This fault typically occurs if license file is badly formatted or does not have a matching server host ID with fabric interconnect.

Recommended Action
If you see this fault, take the following actions:

Step 1 In the Cisco UCS Manager CLI, check the server host IDs for both fabric interconnects. You can access the host ID information by issuing show server-host-id detail command under the license scope.

Step 2 Match the host-IDs with the contents in license file procured, if it matches, execute the show tech-support command and contact Cisco Technical Support.
Step 3  If it does not match, contact Cisco Technical Support for the correct license file.

Fault Details
- **Severity:** critical
- **Cause:** license-file-uninstallable
- **mibFaultCode:** 677
- **mibFaultName:** fllLicenseFileBadLicenseFile
- **moClass:** license:File
- **Type:** management

**fltLicenseFileFileNotDeleted**

Fault Code:F0678

**Message**
license file [name] from fabric-interconnect [scope] could not be deleted

**Explanation**
Deletion of a license file on this fabric interconnect has failed. This fault typically occurs if license framework is not able to delete a file.

**Recommended Action**
If you see this fault, take the following actions:

Step 1  Execute the **show tech-support** command and contact Cisco Technical Support.

Fault Details
- **Severity:** critical
- **Cause:** license-file-not-deleted
- **mibFaultCode:** 678
- **mibFaultName:** fllLicenseFileFileNotDeleted
- **moClass:** license:File
- **Type:** management

**fltLicenseInstanceGracePeriodWarning1**

Fault Code:F0670

**Message**
license for [feature] on fabric-interconnect [scope] has entered into the grace period.

**Explanation**
The fabric interconnect is running at least one port in the grace-period. This fault typically occurs if one or more ports on the fixed module are enabled after consuming all default licenses.

**Recommended Action**
If you see this fault, take the following actions:
Chapter 2  Cisco UCS Faults

License-Related Faults

Step 1 If the fault occurs in the Cisco UCS Manager GUI, check the number of ports enabled on Fixed module.

Step 2 Check the number of licenses installed and consumed on each fabric interconnect. In the Cisco UCS Manager GUI, you can access the licensing information from the Admin tab for the fabric interconnect. In the Cisco UCS Manager CLI, you can access the licensing information by issuing `show usage detail` command under the license scope.

Step 3 Execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

```
Severity: warning
Cause: license-graceperiod-entered
mibFaultCode: 670
mibFaultName: fltLicenseInstanceGracePeriodWarning1
moClass: license:Instance
Type: management
```

FltLicenseInstanceGracePeriodWarning2

Fault Code:F0671

Message
license for [feature] on fabric-interconnect [scope] is running in the grace period for more than 10 days

Explanation
The fabric interconnect is running at least one port in grace-period for more than 10 days. This fault typically occurs if one or more ports on the fixed module are enabled after consuming all default licenses and system is in this state for more than 10 days.

Recommended Action
If you see this fault, take the following actions:

Step 1 If the fault occurs in the Cisco UCS Manager GUI, check the number of ports enabled on Fixed module.

Step 2 Check the number of licenses installed and consumed on each fabric interconnect. In the Cisco UCS Manager GUI, you can access the licensing information from the Admin tab for the fabric interconnect. In the Cisco UCS Manager CLI, you can access the licensing information by issuing `show usage detail` command under the license scope.

Step 3 Execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

```
Severity: warning
Cause: license-graceperiod-10days
mibFaultCode: 671
mibFaultName: fltLicenseInstanceGracePeriodWarning2
moClass: license:Instance
Type: management
```
License-Related Faults

Chapter 2 Cisco UCS Faults

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fltLicenseInstanceGracePeriodWarning3

Fault Code:F0672

Message
license for [feature] on fabric-interconnect [scope] is running in the grace period for more than 30 days

Explanation
The fabric interconnect is running at least one port in grace-period for more than 30 days. This fault typically occurs if one or more ports on the fixed module are enabled after consuming all default licenses and system is in this state for more than 30 days.

Recommended Action
If you see this fault, take the following actions:

Step 1 If the fault occurs in the Cisco UCS Manager GUI, check the number of ports enabled on Fixed module.
Step 2 Check the number of licenses installed and consumed on each fabric interconnect. In the Cisco UCS Manager GUI, you can access the licensing information from the Admin tab for the fabric interconnect. In the Cisco UCS Manager CLI, you can access the licensing information by issuing `show usage detail` command under the license scope.
Step 3 Execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details
Severity: warning
Cause: license-graceperiod-30days
mibFaultCode: 672
mibFaultName: fltLicenseInstanceGracePeriodWarning3
moClass: license:Instance
Type: management

fltLicenseInstanceGracePeriodWarning4

Fault Code:F0673

Message
license for [feature] on fabric-interconnect [scope] is running in the grace period for more than 60 days

Explanation
The fabric interconnect is running at least one port in grace-period for more than 60 days. This fault typically occurs if one or more ports on the fixed module are enabled after consuming all default licenses and system is in this state for more than 60 days.

Recommended Action
If you see this fault, take the following actions:

Step 1 If the fault occurs in the Cisco UCS Manager GUI, check the number of ports enabled on Fixed module.
Step 2 Check the number of licenses installed and consumed on each fabric interconnect. In the Cisco UCS Manager GUI, you can access the licensing information from the Admin tab for the fabric interconnect. In the Cisco UCS Manager CLI, you can access the licensing information by issuing `show usage detail` command under the license scope.

Step 3 Execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

Severity: warning
Cause: license-graceperiod-60days
mibFaultCode: 673
mibFaultName:fltLicenseInstanceGracePeriodWarning4
moClass: license:Instance
Type: management

fltLicenseInstanceGracePeriodWarning5

Fault Code:F0674

Message
license for [feature] on fabric-interconnect [scope] is running in the grace period for more than 90 days

Explanation
The fabric interconnect is running at least one port in grace-period for more than 90 days. This fault typically occurs if one or more ports on the fixed module are enabled after consuming all default licenses and system is in this state for more than 90 days.

Recommended Action
If you see this fault, take the following actions:

Step 1 If the fault occurs in the Cisco UCS Manager GUI, check the number of ports enabled on Fixed module.

Step 2 Check the number of licenses installed and consumed on each fabric interconnect. In the Cisco UCS Manager GUI, you can access the licensing information from the Admin tab for the fabric interconnect. In the Cisco UCS Manager CLI, you can access the licensing information by issuing `show usage detail` command under the license scope.

Step 3 Execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

Severity: major
Cause: license-graceperiod-90days
mibFaultCode: 674
mibFaultName:fltLicenseInstanceGracePeriodWarning5
moClass: license:Instance
Type: management
License-Related Faults

Chapter 2 Cisco UCS Faults

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fltLicenseInstanceGracePeriodWarning6

Fault Code:F0675

Message
license for [feature] on fabric-interconnect [scope] is running in the grace period for more than 119 days

Explanation
The fabric interconnect is running at least one port in grace-period for more than 119 days. This fault typically occurs if one or more ports on the fixed module are enabled after consuming all default licenses and system is in this state for more than 119 days.

Recommended Action
If you see this fault, take the following actions:

Step 1 If the fault occurs in the Cisco UCS Manager GUI, check the number of ports enabled on Fixed module.

Step 2 Check the number of licenses installed and consumed on each fabric interconnect. In the Cisco UCS Manager GUI, you can access the licensing information from the Admin tab for the fabric interconnect. In the Cisco UCS Manager CLI, you can access the licensing information by issuing `show usage detail` command under the license scope.

Step 3 Execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details
- Severity: critical
- Cause: license-graceperiod-119days
- mibFaultCode: 675
- mibFaultName: f1tLicenseInstanceGracePeriodWarning6
- moClass: license:Instance
- Type: management

fltLicenseInstanceGracePeriodWarning7

Fault Code:F0676

Message
Grace period for [feature] on fabric-interconnect [scope] is expired. Please acquire a license for the same.

Explanation
The fabric interconnect is running at least one port in grace-period for more than 120 days. This fault typically occurs if one or more ports on the fixed module are enabled after consuming all default licenses and system is in this state for more than 120 days. This puts the system licensing state as expired.

Recommended Action
If you see this fault, take the following actions:

Step 1 If the fault occurs in the Cisco UCS Manager GUI, check the number of ports enabled on Fixed module.
Link-Related Faults

This section contains faults raised as a result of issues related to the links between a chassis or I/O module and a fabric interconnect.

fltEtherSwitchIntFloSatellite-connection-absent

Fault Code:F0367

Message
No link between IOM port [chassisId]/[slotId]/[portId] and fabric interconnect [switchId]:[peerSlotId]/[peerPortId]

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
  Severity: major
  Cause: satellite-connection-absent
  mibFaultCode: 367
  mibFaultName: fltEtherSwitchIntFloSatelliteConnectionAbsent
  moClass: ether:SwitchIntFlo
  Type: connectivity
Memory-Related Faults

This section contains faults raised as issues with memory units or DIMMs in a server.

**fltMemoryArrayVoltageThresholdCritical**

**Fault Code:** F0190

**Message**
Memory array [id] on server [chassisId]/[slotId] voltage: [voltage] Memory array [id] on server [id] voltage: [voltage]

**Explanation**
None set.

**Recommended Action**
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**
- **Severity:** major
- **Cause:** voltage-problem
- **mibFaultCode:** 190
- **mibFaultName:** fltMemoryArrayVoltageThresholdCritical
- **moClass:** memory:Array
- **Type:** environmental

**fltMemoryArrayVoltageThresholdNonCritical**

**Fault Code:** F0189

**Message**
Memory array [id] on server [chassisId]/[slotId] voltage: [voltage] Memory array [id] on server [id] voltage: [voltage]

**Explanation**
None set.

**Recommended Action**
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**
- **Severity:** minor
- **Cause:** voltage-problem
- **mibFaultCode:** 189
Memory-Related Faults

fltMemoryArrayVoltageThresholdNonRecoverable

Fault Code:F0191

Message
Memory array [id] on server [chassisId]/[slotId] voltage: [voltage]Memory array [id] on server [id] voltage: [voltage]

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: critical
Cause: voltage-problem
mibFaultCode: 191
mibFaultName: fltMemoryArrayVoltageThresholdNonRecoverable
moClass: memory:Array
Type: environmental

fltMemoryBufferUnitThermalThresholdCritical

Fault Code:F0536

Message
Buffer Unit [id] on server [chassisId]/[slotId] temperature: [thermal]Buffer Unit [id] on server [id] temperature: [thermal]

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: major
Cause: thermal-problem
mibFaultCode: 536
mibFaultName: fltMemoryBufferUnitThermalThresholdCritical
moClass: memory:Array
Type: environmental
Memory-Related Faults

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moClass: memory:BufferUnit
Type: environmental

fltMemoryBufferUnitThermalThresholdNonCritical

Fault Code:F0535

Message
Buffer Unit [id] on server [chassisId]/[slotId] temperature: [thermal]Buffer Unit [id] on server [id] temperature: [thermal]

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
- Severity: minor
- Cause: thermal-problem
- mibFaultCode: 535
- mibFaultName: fltMemoryBufferUnitThermalThresholdNonCritical
- moClass: memory:BufferUnit
- Type: environmental

fltMemoryBufferUnitThermalThresholdNonRecoverable

Fault Code:F0537

Message
Buffer Unit [id] on server [chassisId]/[slotId] temperature: [thermal]Buffer Unit [id] on server [id] temperature: [thermal]

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
- Severity: critical
- Cause: thermal-problem
- mibFaultCode: 537
- mibFaultName: fltMemoryBufferUnitThermalThresholdNonRecoverable
- moClass: memory:BufferUnit
fltMemoryUnitDegraded

Fault Code:F0184

Message
DIMM [location] on server [chassisId]/[slotId] operability: [operability] DIMM [location] on server [id] operability: [operability]

Explanation
The DIMM is in a degraded operability state. The Cisco UCS Manager raises this fault when any of the following scenarios occur:

- The UCSM marks a memory unit (DIMM) as degraded operability when an excessive number of correctable ECC errors are reported by BIOS.

Recommended Action
If you see this fault, take the following actions:

---

**Step 1**
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

**Step 2**
Monitor the error statistics on the degraded DIMM through the GUI tab. If the high number of errors persists, there is a high possibility of the DIMM becoming inoperable.

**Step 3**
The fault indicates that the DIMM is operating in a degraded state. If the DIMM becomes inoperable, replace the DIMM.

**Step 4**
Execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details
- **Severity:** minor
- **Cause:** equipment-degraded
- **mibFaultCode:** 184
- **mibFaultName:** fltMemoryUnitDegraded
- **moClass:** memory:Unit
- **Type:** equipment

fltMemoryUnitIdentity-unestablishable

Fault Code:F0502

Message
DIMM [location] on server [chassisId]/[slotId] has an invalid FRU. DIMM [location] on server [id] has an invalid FRU

Explanation
This fault typically occurs because the Cisco UCS Manager has detected unsupported DIMM in the server. For example, the model, vendor, or revision is not recognized.
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Chapter 2  Cisco UCS Faults

Memory-Related Faults

Recommended Action
If you see this fault, take the following actions:

Step 1  If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2  Verify that the capability catalog in the Cisco UCS Manager is up-to-date. If necessary, update the catalog.

Step 3  If the above actions did not resolve the issue, you may have unsupported DIMMs or DIMM configuration in the server. Execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: warning
Cause: identity-unestablishable
mibFaultCode: 502
mibFaultName: fltMemoryUnitIdentityUnestablishable
moClass: memory:Unit
Type: equipment

fltMemoryUnitInoperable

Fault Code:F0185

Message
DIMM [location] on server [chassisId]/[slotId] operability: [operability]DIMM [location] on server [id] operability: [operability]

Explanation
This fault typically occurs because an above threshold number of correctable or uncorrectable errors occurred on a DIMM. The DIMM may be inoperable.

Recommended Action
If you see this fault, take the following actions:

Step 1  If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2  If the SEL is enabled, look at the SEL statistics on the DIMM to determine which threshold was crossed.

Step 3  If necessary, replace the DIMM.

Step 4  If the above actions do not resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: major
Cause: equipment-inoperable
mibFaultCode: 185
mibFaultName: fltMemoryUnitInoperable
moClass: memory:Unit
Memory-Related Faults

**fltMemoryUnitThermalThresholdCritical**

**Fault Code:** F0187

**Message**
DIMM [location] on server [chassisId]/[slotId] temperature: [thermal]DIMM [location] on server [id] temperature: [thermal]

**Explanation**
None set.

**Recommended Action**
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**
- **Severity:** major
- **Cause:** thermal-problem
- **mibFaultCode:** 187
- **mibFaultName:** fltMemoryUnitThermalThresholdCritical
- **moClass:** memory:Unit
- **Type:** environmental

**fltMemoryUnitThermalThresholdNonCritical**

**Fault Code:** F0186

**Message**
DIMM [location] on server [chassisId]/[slotId] temperature: [thermal]DIMM [location] on server [id] temperature: [thermal]

**Explanation**
None set.

**Recommended Action**
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**
- **Severity:** minor
- **Cause:** thermal-problem
- **mibFaultCode:** 186
- **mibFaultName:** fltMemoryUnitThermalThresholdNonCritical
- **moClass:** memory:Unit
- **Type:** environmental
Pin Group-Related Faults

This section contains faults raised as a result of issues related to a pin groups in the Cisco UCS instance.

fltMemoryUnitThermalThresholdNonRecoverable

Fault Code:F0188

Message
DIMM [location] on server [chassisId]/[slotId] temperature: [thermal]DIMM [location] on server [id] temperature: [thermal]

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: critical
Cause: thermal-problem
mibFaultCode: 188
mibFaultName: fltMemoryUnitThermalThresholdNonRecoverable
moClass: memory:Unit
Type: environmental

fltFabricLanPinGroupEmpty

Fault Code:F0621

Message
LAN Pin Group [name] is empty

Explanation
This fault typically occurs when a LAN Pin Group does not contain any targets.

Recommended Action
If you see this fault, take the following action:

Step 1
Add a target to the LAN Pin Group.

Fault Details
Severity: minor
Cause: empty-pin-group
Pool-Related Faults

This section contains faults raised as a result of issues related to a server pool, UUID suffix pool, or other pool in the Cisco UCS instance.

fltComputePoolEmpty

Fault Code:F0463

Message
server pool [name] is empty

Explanation
This fault typically occurs when the selected server pool does not contain any servers.

Recommended Action
If you see this fault, take the following actions:
Step 1  Verify the qualifier settings in the server pool policy qualifications. If the policy was modified after the server was discovered, reacknowledge the server.

Step 2  Manually associate the service profile with a server.

Step 3  If the server pool is not used, ignore the fault.

Step 4  If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

Severity: minor  
Cause: empty-pool  
mibFaultCode: 463  
mibFaultName: fltComputePoolEmpty  
moClass: compute:Pool  
Type: server

`fltFcpoolInitiatorsEmpty`

Fault Code:F0476

Message
FC pool [purpose] [name] is empty

Explanation
This fault typically occurs when a WWN pool does not contain any WWNs.

Recommended Action
If you see this fault, take the following actions:

Step 1  If the pool is in use, add a block of WWNs to the pool.

Step 2  If the pool is not in use, ignore the fault.

Fault Details

Severity: minor  
Cause: empty-pool  
mibFaultCode: 476  
mibFaultName: fltFcpoolInitiatorsEmpty  
moClass: fcpool:Initiators  
Type: server

`fltIppoolPoolEmpty`

Fault Code:F0465

Message
IP pool [name] is empty
**Pool-Related Faults**

### Explanation

This fault typically occurs when an IP address pool does not contain any IP addresses.

### Recommended Action

If you see this fault, take the following actions:

1. **Step 1** If the pool is in use, add a block of IP addresses to the pool.
2. **Step 2** If the pool is not in use, ignore the fault.

### Fault Details

- **Severity:** minor
- **Cause:** empty-pool
- **mibFaultCode:** 465
- **mibFaultName:** fltIppoolPoolEmpty
- **moClass:** ippool:Pool
- **Type:** server

#### fltIppoolPoolEmpty

**Fault Code:** F0466

**Message**

MAC pool [name] is empty

**Explanation**

This fault typically occurs when a MAC address pool does not contain any MAC addresses.

**Recommended Action**

If you see this fault, take the following actions:

1. **Step 1** If the pool is in use, add a block of MAC addresses to the pool.
2. **Step 2** If the pool is not in use, ignore the fault.

### Fault Details

- **Severity:** minor
- **Cause:** empty-pool
- **mibFaultCode:** 466
- **mibFaultName:** fltMacpoolPoolEmpty
- **moClass:** macpool:Pool
- **Type:** server
Port-Related Faults

This section contains faults raised as a result of issues with one or more ports in a Cisco UCS instance.

fltPortPIOFailed

Fault Code:F0277

Message
[transport] port [portId] on chassis [id] oper state: [operState], reason: [stateQual][transport] port [portId] on fabric interconnect [id] oper state: [operState], reason: [stateQual]

Explanation
This fault is raised on the fabric interconnect port, the server facing ports on the IOM or the FEX module when the system detects an indeterminate fault.

Recommended Action
If you see this fault, take the following actions: Execute the show tech-support command for UCSM and the chassis or FEX module on which fault is reported and contact Cisco Technical Support.

Fault Details
Severity: major
Cause: port-failed
Chapter 2      Cisco UCS Faults

Port-Related Faults

mibFaultCode: 277
mibFaultName: fltPortPIOFailed
moClass: port:PIO
Type: network

fltPortPIOHardware-failure

Fault Code:F0278

Message

Explanation
This fault is raised on the fabric interconnect port, ports on the IOM or the FEX module when the system detects a hardware failure.

Recommended Action
If you see this fault, take the following actions: Execute the show tech-support detail command and contact Cisco Technical Support.

Fault Details
Severity: major
Cause: port-failed
mibFaultCode: 278
mibFaultName: fltPortPIOHardwareFailure
moClass: port:PIO
Type: network

fltPortPIoInvalid-sfp

Fault Code:F0713

Message
[transport] port [portId] on chassis [id] role : [ifRole] transceiver type:[xcvrType][transport] port [portId] on fabric interconnect [id] role : [ifRole] transceiver type:[xcvrType]

Explanation
This fault is raised against a Fabric Interconnect port, network facing IOM port or a FEX module port if an unsupported transceiver type is inserted in it. The port cannot be used when it has an unsupported transceiver.

Recommended Action
If you see this fault, take the following actions: Replace with a supported SFP type. Refer to the CCO documentation for a list of supported SFPs.

Fault Details
Severity: major
Cause: unsupported-transceiver
mibFaultCode: 713
mibFaultName: fltPortPIOInvalidSfp
Port-Related Faults

Chapter 2      Cisco UCS Faults

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moClass: port:PIO
Type: network

fltPortPIOLink-down

Fault Code:F0276

Message
[transport] port [portId] on chassis [id] oper state: [operState], reason: [stateQual][transport] port [portId] on fabric interconnect [id] oper state: [operState], reason: [stateQual]

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: major
Cause: link-down
mibFaultCode: 276
mibFaultName: fltPortPIOLinkDown
moClass: port:PIO
Type: network

fltPortPIOsfp-not-present

Fault Code:F0279

Message

Explanation
When a fabric interconnect port is not in an unconfigured state, an SFP is required for its operation. This fault is raised to indicate that the SFP is missing.

Recommended Action
If you see this fault, take the following actions: Insert an appropriate SFP. The list of supported SFPs can be found in Cisco’s external website.

Fault Details
Severity: info
Cause: port-failed
mibFaultCode: 279
mibFaultName: fltPortPIOsfpNotPresent
moClass: port:PIO
Type: network
Port Channel-Related Faults

This section contains faults raised as a result of issues with one or more port channels in a Cisco UCS instance.

fltFabricFcSanPcEpIncompatibleSpeed

Fault Code:F0734

Message
Member [slotId]/[portId] cannot be added to SAN Port-Channel [portId] on fabric interconnect [id], reason: [membership]

Explanation
This fault typically occurs when the maximum supported FC speed of the port in the FC port-channel is incompatible with the FC port-channel admin speed.

Recommended Action
If you see this fault, take the following action:

---

Step 1
Change the admin speed of the port-channel.

or

Step 2
Replace the GEM with a one which suits the admin-speed of the port-channel.

---

Fault Details
Severity: major
Cause: incompatible-speed
mibFaultCode: 734
mibFaultName: fltFabricFcSanPcEpIncompatibleSpeed
moClass: fabric:FcSanPcEp
Type: network

fltFabricFcSanPcIncompatibleSpeed

Fault Code:F0735

Message
Cannot set admin speed to the requested value, Speed incompatible with member ports in the port-channel

Explanation
This fault typically occurs when the maximum supported FC speed of the port in the FC port-channel is incompatible with the FC port-channel admin speed.

Recommended Action
If you see this fault, take the following action:
Chapter 2      Cisco UCS Faults

Power Supply-Related Faults

This section contains faults raised as a result of issues related to a power supply unit in the Cisco UCS instance.

fltEquipmentPsuIdentity

Fault Code:F0407

Message
Power supply [id] on chassis [id] has a malformed FRUPower supply [id] on server [id] has a malformed FRU

Explanation
This fault typically occurs when a power supply unit has corrupted or has malformed FRU information.

Recommended Action
If you see this fault, take the following actions:

Step 1  If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2  Execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: critical
Cause: fru-problem
mibFaultCode: 407
mibFaultName: fltEquipmentPsuIdentity
moClass: equipment:Psu
Type: equipment
fltEquipmentPsuInoperable

Fault Code:F0374

Message

Explanation
This fault typically occurs when the Cisco UCS Manager detects a problem with a power supply unit in a chassis, fabric interconnect or a fex. For example, the PSU is not functional.

Recommended Action
If you see this fault, take the following actions:

Step 1 Verify that the power cord is properly connected to the PSU and the power source.
Step 2 Verify that the power source is 220 volts.
Step 3 Verify that the PSU is properly installed in the chassis or fabric interconnect.
Step 4 Remove the PSU and reinstall it.
Step 5 Replace the PSU.
Step 6 If the above actions did not resolve the issue, note down the type of PSU, execute the show tech-support command, and contact Cisco Technical Support.

Fault Details
Severity: major
Cause: equipment-inoperable
mibFaultCode: 374
mibFaultName: fltEquipmentPsuInoperable
moClass: equipment:Psu
Type: equipment

fltEquipmentPsuMissing

Fault Code:F0378

Message

Explanation
This fault typically occurs when the Cisco UCS Manager detects a problem with a power supply unit in a chassis, fabric interconnect or a fex. For example, the PSU is missing.
Chapter 2  Cisco UCS Faults

Power Supply-Related Faults

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Recommended Action

If you see this fault, take the following actions:

---

**Step 1**
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

**Step 2**
If the power supply unit is physically present in the slot, remove and then reinsert it.

**Step 3**
If the power supply unit is not physically present in the slot, reinsert it.

**Step 4**
If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

---

Fault Details

- **Severity:** warning
- **Cause:** equipment-missing
- **mibFaultCode:** 378
- **mibFaultName:** fltEquipmentPsuMissing
- **moClass:** equipment:Psu
- **Type:** equipment

fltEquipmentPsuOffline

**Fault Code:** F0528

**Message**

Power supply [id] in chassis [id] power: [power]
Power supply [id] in fabric interconnect [id] power: [power]
Power supply [id] in fex [id] power: [power]
Power supply [id] in server [id] power: [power]

**Explanation**

This fault typically occurs when Cisco UCS Manager detects that a power supply unit in a chassis, fabric interconnect or a fex is offline.

**Recommended Action**

If you see this fault, take the following actions:

---

**Step 1**
Verify that the power cord is properly connected to the PSU and the power source.

**Step 2**
Verify that the power source is 220 volts.

**Step 3**
Verify that the PSU is properly installed in the chassis or fabric interconnect.

**Step 4**
Remove the PSU and reinstall it.

**Step 5**
Replace the PSU.

**Step 6**
If the above actions did not resolve the issue, note down the type of PSU, execute the `show tech-support` command, and contact Cisco Technical Support.

---

Fault Details

- **Severity:** warning
- **Cause:** equipment-offline
mibFaultCode: 528
mibFaultName: fltEquipmentPsuOffline
moClass: equipment:Psu
Type: environmental

fltEquipmentPsuPerfThresholdCritical

Fault Code:F0393

Message

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Severity: major
Cause: performance-problem
mibFaultCode: 393
mibFaultName: fltEquipmentPsuPerfThresholdCritical
moClass: equipment:Psu
Type: equipment

fltEquipmentPsuPerfThresholdNonCritical

Fault Code:F0392

Message

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Severity: minor
Cause: performance-problem
mibFaultCode: 392
Power Supply-Related Faults

mibFaultName: fltEquipmentPsuPerfThresholdNonCritical
moClass: equipment:Psu
Type: equipment

fltEquipmentPsuPerfThresholdNonRecoverable

Fault Code:F0394

Message

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: critical
Cause: performance-problem
mibFaultCode: 394
mibFaultName: fltEquipmentPsuPerfThresholdNonRecoverable
moClass: equipment:Psu
Type: equipment

fltEquipmentPsuPowerSupplyProblem

Fault Code:F0369

Message

Explanation
This fault typically occurs when the Cisco UCS Manager detects a problem with a power supply unit in a chassis, fabric interconnect or a fex. For example, the PSU is not functional.

Recommended Action
If you see this fault, take the following actions:

Step 1 Verify that the power cord is properly connected to the PSU and the power source.
Step 2 Verify that the power source is 220 volts.
Step 3 Verify that the PSU is properly installed in the chassis or fabric interconnect.
Step 4 Remove the PSU and reinstall it.
Step 5 Replace the PSU.
Chapter 2  Cisco UCS Faults

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Step 6
If the above actions did not resolve the issue, note down the type of PSU, execute the `show tech-support` command, and contact Cisco Technical Support.

Fault Details
Severity: major
Cause: power-problem
mibFaultCode: 369
mibFaultName: fltEquipmentPsuPowerSupplyProblem
moClass: equipment:Psu
Type: environmental

fltEquipmentPsuThermalThresholdCritical

Fault Code:F0383

Message

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details
Severity: major
Cause: thermal-problem
mibFaultCode: 383
mibFaultName: fltEquipmentPsuThermalThresholdCritical
moClass: equipment:Psu
Type: environmental

fltEquipmentPsuThermalThresholdNonCritical

Fault Code:F0381

Message

Explanation
None set.
Power Supply-Related Faults

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

- **Severity:** minor
- **Cause:** thermal-problem
- **mibFaultCode:** 381
- **mibFaultName:** fltEquipmentPsuThermalThresholdNonCritical
- **moClass:** equipment:Psu
- **Type:** environmental

### fltEquipmentPsuThermalThresholdNonRecoverable

Fault Code:F0385

**Message**


**Explanation**

None set.

**Recommended Action**

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

- **Severity:** critical
- **Cause:** thermal-problem
- **mibFaultCode:** 385
- **mibFaultName:** fltEquipmentPsuThermalThresholdNonRecoverable
- **moClass:** equipment:Psu
- **Type:** environmental

### fltEquipmentPsuVoltageThresholdCritical

Fault Code:F0389

**Message**


**Explanation**

None set.
Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

Severity: major
Cause: voltage-problem
mibFaultCode: 389
mibFaultName: fltEquipmentPsuVoltageThresholdCritical
moClass: equipment:Psu
Type: environmental

fltEquipmentPsuVoltageThresholdNonCritical

Fault Code:F0387

Message

Explanation
None set.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

Severity: minor
Cause: voltage-problem
mibFaultCode: 387
mibFaultName: fltEquipmentPsuVoltageThresholdNonCritical
moClass: equipment:Psu
Type: environmental

fltEquipmentPsuVoltageThresholdNonRecoverable

Fault Code:F0391

Message

Explanation
None set.
Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details
- **Severity:** critical
- **Cause:** voltage-problem
- **mibFaultCode:** 391
- **mibFaultName:** fltEquipmentPsuVoltageThresholdNonRecoverable
- **moClass:** equipment:Psu
- **Type:** environmental

`fltFabricExternalPcDown`

**Fault Code:** F0282

**Message**
[type] port-channel [portId] on fabric interconnect [id] oper state: [operState], reason: [stateQual][type] port-channel [portId] on fabric interconnect [id] oper state: [operState], reason: [stateQual]

**Explanation**
The fabric port-channel operationally down. The Cisco UCS Manager raises this fault when any of the following scenarios occur:
- Endpoint(switch/fabric interconnect) reports that the fabric port channel operational state is down.

**Recommended Action**
If you see this fault, take the following actions:

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 1</td>
<td>If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.</td>
</tr>
<tr>
<td>Step 2</td>
<td>Verify that the member ports in the fabric port channel are admin up and operational. Check the link connectivity.</td>
</tr>
<tr>
<td>Step 3</td>
<td>If connectivity seems correct, check the operational states on the peer switch ports of the port channels members.</td>
</tr>
<tr>
<td>Step 4</td>
<td>Execute the <code>show tech-support</code> command and contact Cisco Technical Support.</td>
</tr>
</tbody>
</table>

**Fault Details**
- **Severity:** major
- **Cause:** operational-state-down
- **mibFaultCode:** 282
- **mibFaultName:** fltFabricExternalPcDown
- **moClass:** fabric:ExternalPc
- **Type:** network
fltFabricFcSanPcEpDown

Fault Code:F0728

Message
[type] Member [slotId]/[portId] of Port-Channel [portId] on fabric interconnect [id] is down, membership: [membership]

Explanation
This fault typically occurs when a member-port in a FC port-channel is down.

Recommended Action
If you see this fault, take the following action:

Step 1
Check the link connectivity on the upstream FC switch.

Fault Details
Severity: major
Cause: membership-down
mibFaultCode: 728
mibFaultName: fltFabricFcSanPcEpDown
moClass: fabric:FcSanPcEp
Type: network

Processor-Related Faults

This section contains faults raised as a result of issues with a server processor.

fltProcessorUnitIdentity-unestablishable

Fault Code:F0801

Message
Processor [id] on server [chassisId]/[slotId] has an invalid FRUProcessor [id] on server [id] has an invalid FRU

Explanation
This fault typically occurs because the Cisco UCS Manager has detected unsupported CPU in the server. For example, the model, vendor, or revision is not recognized.

Recommended Action
If you see this fault, take the following actions:

Step 1
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.
Step 2 Verify that the capability catalog in the Cisco UCS Manager is up-to-date. If necessary, update the catalog.

Step 3 If the above actions did not resolve the issue, you may have unsupported CPU configuration in the server. Execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

- **Severity**: warning
- **Cause**: identity-unestablishable
- **mibFaultCode**: 801
- **mibFaultName**:fltProcessorUnitIdentityUnestablishable
- **moClass**: processor:Unit
- **Type**: equipment

###fltProcessorUnitInoperable

**Fault Code:** F0174

**Message**
Processor [id] on server [chassisId]/[slotId] operability: [operability]

**Explanation**
None set.

**Recommended Action**
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the *Release Notes for Cisco UCS Manager* and the *Cisco UCS Troubleshooting Guide*. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

- **Severity**: major
- **Cause**: equipment-inoperable
- **mibFaultCode**: 174
- **mibFaultName**:fltProcessorUnitInoperable
- **moClass**: processor:Unit
- **Type**: equipment

###fltProcessorUnitThermalNonCritical

**Fault Code:** F0175

**Message**
Processor [id] on server [chassisId]/[slotId] temperature: [thermal] Processor [id] on server [id] temperature: [thermal]

**Explanation**
None set.
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**Recommended Action**
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the *Release Notes for Cisco UCS Manager* and the *Cisco UCS Troubleshooting Guide*. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**
- **Severity**: major
- **Cause**: thermal-problem
- **mibFaultCode**: 176
- **mibFaultName**: `fltProcessorUnitThermalThresholdCritical`
- **moClass**: processor:Unit
- **Type**: environmental

### `fltProcessorUnitThermalThresholdCritical`

**Fault Code**: F0176

**Message**
Processor [id] on server [chassisId]/[slotId] temperature: [thermal]Processor [id] on server [id] temperature: [thermal]

**Explanation**
None set.

**Recommended Action**
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the *Release Notes for Cisco UCS Manager* and the *Cisco UCS Troubleshooting Guide*. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**
- **Severity**: major
- **Cause**: thermal-problem
- **mibFaultCode**: 176
- **mibFaultName**: `fltProcessorUnitThermalThresholdCritical`
- **moClass**: processor:Unit
- **Type**: environmental

### `fltProcessorUnitThermalThresholdNonRecoverable`

**Fault Code**: F0177

**Message**
Processor [id] on server [chassisId]/[slotId] temperature: [thermal]Processor [id] on server [id] temperature: [thermal]

**Explanation**
None set.
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**Recommanded Action**

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the *Release Notes for Cisco UCS Manager* and the *Cisco UCS Troubleshooting Guide*. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**

- **Severity:** critical
- **Cause:** thermal-problem
- **mibFaultCode:** 177
- **mibFaultName:** `fltProcessorUnitThermalThresholdNonRecoverable`
- **moClass:** `processor:Unit`
- **Type:** environmental

**fltProcessorUnitVoltageThresholdCritical**

**Fault Code:** F0179

**Message**

Processor [id] on server [chassisId]/[slotId] voltage: [voltage]

**Explanation**

None set.

**Recommended Action**

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the *Release Notes for Cisco UCS Manager* and the *Cisco UCS Troubleshooting Guide*. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**

- **Severity:** major
- **Cause:** voltage-problem
- **mibFaultCode:** 179
- **mibFaultName:** `fltProcessorUnitVoltageThresholdCritical`
- **moClass:** `processor:Unit`
- **Type:** environmental

**fltProcessorUnitVoltageThresholdNonCritical**

**Fault Code:** F0178

**Message**

Processor [id] on server [chassisId]/[slotId] voltage: [voltage]

**Explanation**

None set.
Chapter 2 Cisco UCS Faults

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Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: minor
Cause: voltage-problem
mibFaultCode: 178
mibFaultName: fltProcessorUnitVoltageThresholdNonCritical
moClass: processor:Unit
Type: environmental

fltProcessorUnitVoltageThresholdNonRecoverable

Fault Code:F0180

Message
Processor [id] on server [chassisId]/[slotId] voltage: [voltage]

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: critical
Cause: voltage-problem
mibFaultCode: 180
mibFaultName: fltProcessorUnitVoltageThresholdNonRecoverable
moClass: processor:Unit
Type: environmental

Server-Related Faults

This section contains faults raised as a result of issues related to a server.

fltComputeBoardCmosVoltageThresholdCritical

Fault Code:F0424

Message
Possible loss of CMOS settings: CMOS battery voltage on server [chassisId]/[slotId] is [cmosVoltage]

Possible loss of CMOS settings: CMOS battery voltage on server [id] is [cmosVoltage]
Server-Related Faults

Chapter 2 Cisco UCS Faults

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Explanation
This fault is raised when CMOS battery voltage has gone lower than normal operating range. This could impact clock and other CMOS settings.

Recommended Action
If you see this fault, take the following actions: Replace the battery.

Fault Details
Severity: minor
Cause: voltage-problem
mibFaultCode: 424
mibFaultName: fltComputeBoardCmosVoltageThresholdCritical
moClass: compute:Board
Type: environmental

fltComputeBoardCmosVoltageThresholdNonRecoverable

Fault Code: F0425

Message
Possible loss of CMOS settings: CMOS battery voltage on server [chassisId]/[slotId] is [cmosVoltage]. Possible loss of CMOS settings: CMOS battery voltage on server [id] is [cmosVoltage].

Explanation
This fault is raised when CMOS battery voltage has gone quite low and is unlikely to recover. This will impact clock and other CMOS settings.

Recommended Action
If you see this fault, take the following actions: Replace the battery.

Fault Details
Severity: major
Cause: voltage-problem
mibFaultCode: 425
mibFaultName: fltComputeBoardCmosVoltageThresholdNonRecoverable
moClass: compute:Board
Type: environmental

fltComputeBoardPowerError

Fault Code: F0310

Message
Motherboard of server [chassisId]/[slotId] (service profile: [assignedToDn]) power: [operPower].

Explanation
This fault typically occurs when the server power sensors have detected a problem.
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**Chapter 2  Cisco UCS Faults**

**Server-Related Faults**

**Recommended Action**

If you see this fault, take the following actions:

---

**Step 1**
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

**Step 2**
Make sure that the server is correctly installed in the chassis and that all cables are secure.

**Step 3**
If you reinstalled the server, reacknowledge it.

**Step 4**
If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

---

**Fault Details**

- **Severity:** major
- **Cause:** power-problem
- **mibFaultCode:** 310
- **mibFaultName:** fltComputeBoardPowerError
- **moClass:** compute:Board
- **Type:** environmental

**fltComputeIOHubThermalNonCritical**

**Fault Code:** F0538

**Message**

IO Hub on server [chassisId]/[slotId] temperature: [thermal]

**Explanation**

This fault is raised when the IO controller temperature is outside the upper or lower non-critical threshold.

**Recommended Action**

If you see this fault, take the following actions: Monitor other environmental events related to this server and ensure the temperature ranges are within recommended ranges.

**Fault Details**

- **Severity:** minor
- **Cause:** thermal-problem
- **mibFaultCode:** 538
- **mibFaultName:** fltComputeIOHubThermalNonCritical
- **moClass:** compute:IOHub
- **Type:** environmental

**fltComputeIOHubThermalThresholdCritical**

**Fault Code:** F0539

**Message**

IO Hub on server [chassisId]/[slotId] temperature: [thermal]
Server-Related Faults

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Chapter 2 Cisco UCS Faults

Server-Related Faults

Explanation
This fault is raised when the IO controller temperature is outside the upper or lower critical threshold.

Recommended Action
If you see this fault, take the following actions: Monitor other environmental events related to this server and ensure the temperature ranges are within recommended ranges. Consider turning off the server for a while if possible.

Fault Details
Severity: major
Cause: thermal-problem
mibFaultCode: 539
mibFaultName: fltComputeIOHubThermalThresholdCritical
moClass: compute:IOHub
Type: environmental

fltComputeIOHubThermalThresholdNonRecoverable

Fault Code:F0540

Message
IO Hub on server [chassisId]/[slotId] temperature: [thermal]

Explanation
This fault is raised when the IO controller temperature is outside the recoverable range of operation.

Recommended Action
If you see this fault, take the following actions: Shutdown server immediately. Contact Cisco Technical Support.

Fault Details
Severity: critical
Cause: thermal-problem
mibFaultCode: 540
mibFaultName: fltComputeIOHubThermalThresholdNonRecoverable
moClass: compute:IOHub
Type: environmental

fltComputePhysicalAssignedInaccessible

Fault Code:F0322

Message
Server [id] (service profile: [assignedToDn]) inaccessibleServer [chassisId]/[slotId] (service profile: [assignedToDn]) inaccessible

Explanation
This fault typically occurs when the server, which is associated with a service profile, has lost connection to the fabric interconnects. This fault occurs if there are communication issues between CIMC and the fabric interconnects.
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Recommended Action
If you see this fault, take the following actions:

Step 1  Wait a few minutes to see if the fault clears. This is typically a temporary issue, and can occur after a firmware upgrade.
Step 2  If the fault does not clear after a brief time, remove the server and then reinsert it.
Step 3  Reacknowledge the server.
Step 4  If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details
Severity: minor
Cause: equipment-inaccessible
mibFaultCode: 322
mibFaultName: fltComputePhysicalAssignedInaccessible
moClass: compute:Physical
Type: equipment

fltComputePhysicalAssignedMissing

Fault Code:F0319

Message
Server [id] (service profile: [assignedToDn]) missingServer [chassisId]/[slotId] (service profile: [assignedToDn]) missing

Explanation
This fault typically occurs when the server, which is associated with a service profile, was previously physically inserted in the slot, but cannot be detected by the Cisco UCS Manager.

Recommended Action
If you see this fault, take the following actions:

Step 1  If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.
Step 2  If the server is physically present in the slot, remove and then reinsert it.
Step 3  If the server is not physically present in the slot, reinsert it.
Step 4  Reacknowledge the server.
Step 5  If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details
Severity: major
Cause: equipment-missing
mibFaultCode: 319
Server-Related Faults

Chapter 2 Cisco UCS Faults

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mibFaultName: fltComputePhysicalAssignedMissing
moClass: compute:Physical
Type: equipment

fltComputePhysicalAssociationFailed

Fault Code:F0315

Message
Service profile [assignedToDn] failed to associate with server [id]Service profile [assignedToDn] failed to associate with server [chassisId]/[slotId]

Explanation
This fault typically occurs for one of the following reasons:
• The service profile could not be associated with the server.
• The server is down.
• The data path is not working.
• The Cisco UCS Manager cannot communicate with one or more of the fabric interconnect, the server, or a component on the server.

Recommended Action
If you see this fault, take the following actions:

Step 1 If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.
Step 2 Check the FSM tab and the current state of the server and any FSM operations.
Step 3 If the server is stuck in an inappropriate state, such as booting, power-cycle the server.
Step 4 If the above actions did not resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: critical
Cause: association-failed
mibFaultCode: 315
mibFaultName: fltComputePhysicalAssociationFailed
moClass: compute:Physical
Type: configuration

fltComputePhysicalBiosPostTimeout

Fault Code:F0313

Message
Server [id] (service profile: [assignedToDn]) BIOS failed power-on self testServer [chassisId]/[slotId] (service profile: [assignedToDn]) BIOS failed power-on self test
Explanation
This fault typically occurs when the server has encountered a diagnostic failure.

Recommended Action
If you see this fault, take the following actions:

---

Step 1  If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2  Check the POST results for the server. In the Cisco UCS Manager GUI, you can access the POST results from the General tab for the server. In the Cisco UCS Manager CLI, you can access the POST results through the `show post` command under the scope for the server.

Step 3  Reacknowledge the server.

Step 4  If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

---

Fault Details

- **Severity:** critical
- **Cause:** equipment-inoperable
- **mibFaultCode:** 313
- **mibFaultName:** fltComputePhysicalBiosPostTimeout
- **moClass:** compute:Physical
- **Type:** equipment

---

**fltComputePhysicalDiscoveryFailed**

**Fault Code:** F0314

**Message**

Server [id] (service profile: [assignedToDn]) discovery: [discovery]Server [chassisId]/[slotId] (service profile: [assignedToDn]) discovery: [discovery]

**Explanations**

This fault typically occurs for one of the following reasons:

- The shallow discovery that occurs when the server associated with the service profile failed.
- The server is down.
- The data path is not working.
- Cisco UCS Manager cannot communicate with the BMC on the server.
- The server cannot communicate with the fabric interconnect.

**Recommended Action**

If you see this fault, take the following actions:

---

Step 1  If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2  Check the FSM tab and the current state of the server and any FSM operations.
Step 3 Check the error descriptions and see if any server components indicate a failure.

Step 4 If the server or a server component has failed, do the following:
   a. Check the operational state of the server.
   b. If the server is not operable, re-acknowledge the server.

Step 5 If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details
- **Severity:** major
- **Cause:** discovery-failed
- **mibFaultCode:** 314
- **mibFaultName:** fltComputePhysicalDiscoveryFailed
- **moClass:** compute:Physical
- **Type:** operational

**fltComputePhysicalIdentityUnestablishable**

**Fault Code:** F0306

**Message**
Server [id] (service profile: [assignedToDn]) has an invalid FRU Server [chassisId]/[slotId] (service profile: [assignedToDn]) has an invalid FRU

**Explanation**
This fault typically occurs because the Cisco UCS Manager has detected an unsupported server or CPU.

**Recommended Action**
If you see this fault, take the following actions:

- **Step 1** If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.
- **Step 2** Verify that a supported server and/or CPU is installed.
- **Step 3** Verify that the Cisco UCS Manager capability catalog is up-to-date.
- **Step 4** Reacknowledge the server.
- **Step 5** If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details
- **Severity:** minor
- **Cause:** identity-unestablishable
- **mibFaultCode:** 306
- **mibFaultName:** fltComputePhysicalIdentityUnestablishable
- **moClass:** compute:Physical
- **Type:** equipment
fltComputePhysicalInoperable

Fault Code:F0317

Message
Server [id] (service profile: [assignedToDn]) health: [operability]Server [chassisId]/[slotId] (service profile: [assignedToDn]) health: [operability]

Explanation
This fault typically occurs when the server has encountered a diagnostic failure.

Recommended Action
If you see this fault, take the following actions:

Step 1
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2
Check the POST results for the server. In Cisco UCS Manager GUI, you can access the POST results from the General tab for the server. In Cisco UCS Manager CLI, you can access the POST results through the `show post` command under the scope for the server.

Step 3
Reacknowledge the server.

Step 4
If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details
- **Severity**: major
- **Cause**: equipment-inoperable
- **mibFaultCode**: 317
- **mibFaultName**: f1tComputePhysicalInoperable
- **moClass**: compute:Physical
- **Type**: equipment

fltComputePhysicalInsufficientlyEquipped

Fault Code:F0305

Message
Server [id] (service profile: [assignedToDn]) has insufficient number of DIMMs, CPUs and/or adaptersServer [chassisId]/[slotId] (service profile: [assignedToDn]) has insufficient number of DIMMs, CPUs and/or adapters

Explanation
This fault typically occurs because the Cisco UCS Manager has detected that the server has an insufficient number of DIMMs, CPUs and/or adapter.

Recommended Action
If you see this fault, take the following actions:
Step 1  If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2  Verify that the DIMMs are installed in a supported configuration.

Step 3  Verify that an adapter and CPU are installed.

Step 4  Reacknowledge the server.

Step 5  If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

**Severity:** minor

**Cause:** insufficiently-equipped

**mibFaultCode:** 305

**mibFaultName:** fltComputePhysicalInsufficientlyEquipped

**moClass:** compute:Physical

**Type:** equipment

### fltComputePhysicalPost-failure

**Fault Code:** F0517

**Message**

Server [id] POST or diagnostic failure

Server [chassisId]/[slotId] POST or diagnostic failure

**Explanation**

This fault typically occurs when the server has encountered a diagnostic failure or an error during POST.

**Recommended Action**

If you see this fault, take the following actions:

Step 1  If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2  Check the POST results for the server. In Cisco UCS Manager GUI, you can access the POST results from the General tab for the server. In Cisco UCS Manager CLI, you can access the POST results through the `show post` command under the scope for the server.

Step 3  Reboot the server.

Step 4  If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

**Severity:** major

**Cause:** equipment-problem

**mibFaultCode:** 517

**mibFaultName:** fltComputePhysicalPostFailure

**moClass:** compute:Physical

**Type:** server
fltComputePhysicalPowerProblem

Fault Code: F0311

Message
Server [id] (service profile: [assignedToDn]) oper state: [operState]
Server [chassisId]/[slotId] (service profile: [assignedToDn]) oper state: [operState]

Explanation
This fault typically occurs when the server power sensors have detected a problem.

Recommended Action
If you see this fault, take the following actions:

Step 1
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2
Make sure that the server is correctly installed in the chassis and that all cables are secure.

Step 3
If you reinstalled the server, reacknowledge it.

Step 4
If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details
Severity: major
Cause: power-problem
mibFaultCode: 311
mibFaultName: fltComputePhysicalPowerProblem
moClass: compute:Physical
Type: environmental

fltComputePhysicalThermalProblem

Fault Code: F0312

Message
Server [id] (service profile: [assignedToDn]) oper state: [operState]
Server [chassisId]/[slotId] (service profile: [assignedToDn]) oper state: [operState]

Explanation
This fault typically occurs when the server thermal sensors have detected a problem.

Recommended Action
If you see this fault, take the following actions:

Step 1
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2
Make sure that the server fans are working properly.
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Chapter 2       Cisco UCS Faults

Server-Related Faults

Step 3  Wait for 24 hours to see if the problem resolves itself.
Step 4  If the above actions did not resolve the issue, execute the \texttt{show tech-support} command and contact Cisco Technical Support.

Fault Details
\begin{itemize}
\item \textbf{Severity:} major
\item \textbf{Cause:} thermal-problem
\item \textbf{mibFaultCode:} 312
\item \textbf{mibFaultName:} fltComputePhysicalThermalProblem
\item \textbf{moClass:} compute:Physical
\item \textbf{Type:} environmental
\end{itemize}

\texttt{fltComputePhysicalUnassignedInaccessible}

Fault Code:F0321

Message
Server [id] (no profile) inaccessibleServer [chassisId]/[slotId] (no profile) inaccessible

Explanation
This fault typically occurs when the server, which is not associated with a service profile, has lost connection to the fabric interconnects. This fault occurs if there are communication issues between CIMC and the fabric interconnects.

Recommended Action
If you see this fault, take the following actions:

\begin{itemize}
\item \textbf{Step 1}  Wait a few minutes to see if the fault clears. This is typically a temporary issue, and can occur after a firmware upgrade.
\item \textbf{Step 2}  If the fault does not clear after a brief time, remove the server and then reinsert it.
\item \textbf{Step 3}  Reacknowledge the server.
\item \textbf{Step 4}  If the above actions did not resolve the issue, execute the \texttt{show tech-support} command and contact Cisco Technical Support.
\end{itemize}

Fault Details
\begin{itemize}
\item \textbf{Severity:} warning
\item \textbf{Cause:} equipment-inaccessible
\item \textbf{mibFaultCode:} 321
\item \textbf{mibFaultName:} fltComputePhysicalUnassignedInaccessible
\item \textbf{moClass:} compute:Physical
\item \textbf{Type:} equipment
Server-Related Faults

fltComputePhysicalUnassignedMissing

Fault Code:F0318

Message
Server [id] (no profile) missingServer [chassisId]/[slotId] (no profile) missing

Explanation
This fault typically occurs when the server, which is not associated with a service profile, was previously physically inserted in the slot, but cannot be detected by the Cisco UCS Manager.

Recommended Action
If you see this fault, take the following actions:

Step 1 If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.
Step 2 If the server is physically present in the slot, remove and then reinsert it.
Step 3 If the server is not physically present in the slot, reinsert it.
Step 4 Reacknowledge the server.
Step 5 If the above actions did not resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: minor
Cause: equipment-missing
mibFaultCode: 318
mibFaultName:fltComputePhysicalUnassignedMissing
moClass:compute:Physical
Type: equipment

fltComputePhysicalUnidentified

Fault Code:F0320

Message
Server [id] (service profile: [assignedToDn]) has an invalid FRU: [presence]Server [chassisId]/[slotId] (service profile: [assignedToDn]) has an invalid FRU: [presence]

Explanation
This fault typically occurs because the Cisco UCS Manager has detected an unsupported server or CPU.

Recommended Action
If you see this fault, take the following actions:

Step 1 If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.
Step 2 Verify that a supported server and/or CPU is installed.
Step 3 Verify that the Cisco UCS Manager capability catalog is up-to-date.
Step 4 Reacknowledge the server.
Step 5 If the above actions did not resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

- **Severity:** minor
- **Cause:** identity-unestablishable
- **mibFaultCode:** 320
- **mibFaultName:** fltComputePhysicalUnidentified
- **moClass:** compute:Physical
- **Type:** equipment

**fltComputeRtcBatteryInoperable**

Fault Code:F0533

**Message**
RTC Battery on server [chassisId]/[slotId] operability: [operability]

**Explanation**
This fault is raised when CMOS battery voltage is below normal operating range. This will impact system clock.

**Recommended Action**
If you see this fault, take the following actions:Replace the CMOS battery.

Fault Details

- **Severity:** major
- **Cause:** equipment-inoperable
- **mibFaultCode:** 533
- **mibFaultName:** fltComputeRtcBatteryInoperable
- **moClass:** compute:RtcBattery
- **Type:** equipment

**fltMgmtIfMisConnect**

Fault Code:F0688

**Message**
Management Port [id] in server [id] is mis connected

**Explanation**
This fault occurs on server and fex connectivity change.

**Recommended Action**
If you see this fault, take the following actions:
Step 1: Check the connectivity between server and fex and if changed by mistake then make it the same as before.

Step 2: If intended, then reacknowledge the server.

Step 3: If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 4: Execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**

- **Severity:** warning
- **Cause:** link-misconnected
- **mibFaultCode:** 688
- **mibFaultName:** fltMgmtIfMisConnect
- **moClass:** mgmt:If
- **Type:** operational

**fltMgmtIfMissing**

**Fault Code:** 0717

**Message**
Connection to Management Port [id] in server [id] is missing

**Explanation**
This fault occurs when connectivity between server and fex connectivity is removed.

**Recommended Action**
If you see this fault, take the following actions:

**Step 1:** Check the connectivity between server and fex and if changed by mistake then make it the same as before.

**Step 2:** If intended, then reacknowledge the server.

**Step 3:** If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

**Step 4:** Execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**

- **Severity:** warning
- **Cause:** link-missing
- **mibFaultCode:** 717
- **mibFaultName:** fltMgmtIfMissing
- **moClass:** mgmt:If
- **Type:** operational
fltMgmtIfNew

Fault Code:F0772

Message
New connection discovered on Management Port [id] in server [id]

Explanation
This fault occurs when new connectivity is added between server and fex.

Recommended Action
If you see this fault, take the following actions:

Step 1 Check the connectivity between server and fex and if changed by mistake then make it same as before.
Step 2 If intended, then reacknowledge the server.
Step 3 If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.
Step 4 Execute the show tech-support command and contact Cisco Technical Support.

Fault Details
  Severity: warning
  Cause: new-link
  mibFaultCode: 772
  mibFaultName: fltMgmtIfNew
  moClass: mgmt:If
  Type: operational

fltPowerBudgetChassisPsuInsufficient

Fault Code:F0764

Message
Chassis [id] has had PSU failures. Please correct the problem by checking input power or replace the PSU

Explanation
This fault typically occurs when at least 2 PSU are not powered on.

Recommended Action
If you see this fault, take the following actions: Consider adding and powering 2 PSU.

Fault Details
  Severity: major
  Cause: psu-failure
  mibFaultCode: 764
  mibFaultName: fltPowerBudgetChassisPsuInsufficient
  moClass: power:Budget
  Type: environmental
fltPowerBudgetFirmwareMismatch

Fault Code: F0798

Message
Firmware on blade [chassisId]/[slotId] does not allow chassis level power capping. Please consider upgrading to atleast 1.4 version

Explanation
This fault typically occurs when CIMC or BIOS firmware is older than 1.4.

Recommended Action
If you see this fault, take the following actions: Consider upgrading to 1.4 or higher version.

Fault Details
Severity: major
Cause: old-firmware
mibFaultCode: 798
mibFaultName: fltPowerBudgetFirmwareMismatch
moClass: power:Budget
Type: environmental

fltPowerBudgetPowerBudgetBmcProblem

Fault Code: F0637

Message
Power cap application failed for server [chassisId]/[slotId]Power cap application failed for server [id]

Explanation
This fault typically occurs when CIMC or BIOS has failed to enforce powercap.

Recommended Action
If you see this fault, take the following actions:

Step 1
Check the power consumption of blade. If consumption is significantly greater than power cap, switch to manual per blade cap. If consumption is still high, it indicates faulty cimc or bios software.

Step 2
Execute `show tech-support` command for UCSM and chassis and contact Cisco Technical Support.

Fault Details
Severity: major
Cause: power-cap-fail
mibFaultCode: 637
mibFaultName: fltPowerBudgetPowerBudgetBmcProblem
moClass: power:Budget
Type: environmental
Server-Related Faults

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Chapter 2Cisco UCS Faults

fltPowerBudgetPowerBudgetCmcProblem

Fault Code:F0635

Message
Power cap application failed for chassis [id]

Explanation
This fault typically occurs when CMC has failed to enforce power cap.

Recommended Action
If you see this fault, take the following actions:

Step 1 Check the power consumption of chassis. If consumption is significantly greater than power cap, consider reducing the group cap so that other chassis consumption can be reduced to make up for the increase.

Step 2 Execute `show tech-support` command for UCSM and chassis and contact Cisco Technical Support.

Fault Details

Severity: major
Cause: power-cap-fail
mibFaultCode: 635
mibFaultName: fltPowerBudgetPowerBudgetCmcProblem
moClass: power:Budget
Type: environmental

fltPowerBudgetPowerBudgetDiscFail

Fault Code:F0640

Message
Insufficient power available to discover server [chassisId]/[slotId]Insufficient power available to discover server [id]

Explanation
This fault typically occurs when discovery fails due to unavailable power in the group.

Recommended Action
If you see this fault, take the following actions:

Step 1 Consider increasing the group cap.

Step 2 Another option is to reduce the blades or chassis in the system.

Fault Details

Severity: major
Cause: power-cap-fail
**fltPowerBudgetPowerCapReachedCommit**

**Fault Code:** F0744

**Message**

P-State lowered as consumption hit power cap for server [chassisId]/[slotId]P-State lowered as consumption hit power cap for server [id]

**Explanation**

This fault typically occurs when bladed is being actively capped.

**Recommended Action**

If you see this fault, take the following actions: No action is needed.

**Fault Details**

- **Severity:** info
- **Cause:** power-consumption-hit-limit
- **mibFaultCode:** 744
- **mibFaultName:** fltPowerBudgetPowerCapReachedCommit
- **moClass:** power:Budget
- **Type:** environmental

**fltPowerBudgetTStateTransition**

**Fault Code:** F0765

**Message**

Blade [chassisId]/[slotId] has been severely throttled. CIMC can recover if budget is redeployed to the blade or by rebooting the blade. If problem persists, please ensure that OS is ACPI compliantRack server [id] has been severely throttled. CIMC can recover if budget is redeployed to the blade or by rebooting the blade. If problem persists, please ensure that OS is ACPI compliant

**Explanation**

This fault typically occurs when processor T-state are used to severely throttle the CPU.

**Recommended Action**

If you see this fault, take the following actions:

- **Step 1** Redeploy budget for the particular group/blade/chassis.
- **Step 2** If problem persists, reboot the blade.

**Fault Details**

- **Severity:** critical
Server-Related Faults

**Chapter 2  Cisco UCS Faults**

** FLTPOWERCHASSISMEMBERCHASSISFIRMWAREPROBLEM **

** Fault Code:** F0741

** Message**
Chassis [id] cannot be capped as atleast one of the CMC or CIMC firmware version is less than 1.4. Please upgrade the firmware for cap to be applied.

** Explanation**
This fault typically occurs when CMC firmware is older than 1.4.

** Recommended Action**
If you see this fault, take the following actions: Consider upgrading to 1.4 or higher version.

** Fault Details**

- **Severity:** major
- **Cause:** old-chassis-component-firmware
- **mibFaultCode:** 741
- **mibFaultName:** fltPowerChassisMemberChassisFirmwareProblem
- **moClass:** power:ChassisMember
- **Type:** environmental

** FLTPOWERCHASSISMEMBERCHASSISPUSUINSUFFICIENT **

** Fault Code:** F0742

** Message**
Chassis [id] cannot be capped as atleast two PSU need to be powered

** Explanation**
This fault typically occurs when atleast 2 PSU are not powered on.

** Recommended Action**
If you see this fault, take the following actions: Consider adding and powering 2 PSU.

** Fault Details**

- **Severity:** major
- **Cause:** psu-insufficient
- **mibFaultCode:** 742
- **mibFaultName:** fltPowerChassisMemberChassisPsuInsufficient
- **moClass:** power:ChassisMember
- **Type:** environmental
### fltPowerChassisMemberChassisPsuRedundanceFailure

**Fault Code:** F0743

**Message**
Chassis [id] was configured for redundancy, but running in a non-redundant configuration.

**Explanation**
None set.

**Recommended Action**
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the [Release Notes for Cisco UCS Manager](http://www.cisco.com/tac) and the [Cisco UCS Troubleshooting Guide](http://www.cisco.com/tac). If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**
- **Severity:** major
- **Cause:** psu-redundancy-fail
- **mibFaultCode:** 743
- **mibFaultName:** fltPowerChassisMemberChassisPsuRedundanceFailure
- **moClass:** power:ChassisMember
- **Type:** environmental

### fltPowerChassisMemberPowerGroupCapInsufficient

**Fault Code:** F0740

**Message**
Chassis [id] cannot be capped as group cap is low. Please consider raising the cap.

**Explanation**
This fault typically occurs when updated group cap is insufficient for minimum hardware requirements. The newly added chassis to the group will not be capped as a result.

**Recommended Action**
If you see this fault, take the following actions:

- **Step 1** Consider increasing the group cap.
- **Step 2** Another option is to reduce the blades or chassis in the system.

**Fault Details**
- **Severity:** major
- **Cause:** group-cap-insufficient
- **mibFaultCode:** 740
- **mibFaultName:** fltPowerChassisMemberPowerGroupCapInsufficient
- **moClass:** power:ChassisMember
- **Type:** environmental
fltPowerGroupPowerGroupBudgetIncorrect

Fault Code:F0643

Message
admin committed insufficient for power group [name], using previous value [operCommitted]

Explanation
This fault typically occurs when updated group cap is insufficient for minimum hardware requirements. The previously entered cap will be used for provisioning.

Recommended Action
If you see this fault, take the following actions:

Step 1 Consider increasing the group cap.
Step 2 Another option is to reduce the blades or chassis in the system.

Fault Details
Severity: major
Cause: power-cap-fail
mibFaultCode: 643
mibFaultName: fltPowerGroupPowerGroupBudgetIncorrect
moClass: power:Group
Type: environmental

fltPowerGroupPowerGroupInsufficientBudget

Fault Code:F0642

Message
insufficient budget for power group [name]

Explanation
This fault typically occurs when group cap is insufficient for minimum hardware requirements.

Recommended Action
If you see this fault, take the following actions:

Step 1 Consider increasing the group cap.
Step 2 Another option is to reduce the blades or chassis in the system.

Fault Details
Severity: major
Cause: power-cap-fail
mibFaultCode: 642
mibFaultName: fltPowerGroupPowerGroupInsufficientBudget
moClass: power:Group
Type: environmental
**fltPowerPolicyPowerPolicyApplicationFail**

Fault Code: F0766

**Message**
Insufficient budget to apply no-cap priority through policy [name]. Blades will continue to be capped.

**Explanation**
Power Policy application on blades failed Cisco UCS Manager raises this fault when any of the following scenario occur:

- Blades will not be able to operate normally without power capping due to the limited power budget on the blades.

**Recommended Action**
If you see this fault, take the following actions:

**Step 1**
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

**Step 2**
Increase the power budget for the blades.

**Step 3**
Execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**
- **Severity:** minor
- **Cause:** no-cap-fail
- **mibFaultCode:** 766
- **mibFaultName:** fltPowerPolicyPowerPolicyApplicationFail
- **moClass:** power:Policy
- **Type:** environmental

**fltStorageLocalDiskInoperable**

Fault Code: F0181

**Message**
Local disk [id] on server [chassisId]/[slotId] operability: [operability]Local disk [id] on server [id] operability: [operability]

**Explanation**
None set.

**Recommended Action**
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at [http://www.cisco.com/tac](http://www.cisco.com/tac). Also refer to the *Release Notes for Cisco UCS Manager* and the *Cisco UCS Troubleshooting Guide*. If you cannot resolve the issue, execute the `show tech-support` command and contact Cisco Technical Support.
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Fault Details

Severity: major
Cause: equipment-inoperable
mibFaultCode: 181
mibFaultName: fltStorageLocalDiskInoperable
moClass: storage:LocalDisk
Type: equipment

fltStorageLocalDiskSlotEpUnusable

Fault Code:F0776

Message
Local disk [id] on server [serverId] is not usable by the operating system

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details

Severity: minor
Cause: equipment-inoperable
mibFaultCode: 776
mibFaultName: fltStorageLocalDiskSlotEpUnusable
moClass: storage:LocalDiskSlotEp
Type: equipment

fltStorageRaidBatteryInoperable

Fault Code:F0531

Message
RAID Battery on server [chassisId]/[slotId] operability: [operability]RAID Battery on server [id] operability: [operability]

Explanation
None set.

Recommended Action
Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. Also refer to the Release Notes for Cisco UCS Manager and the Cisco UCS Troubleshooting Guide. If you cannot resolve the issue, execute the show tech-support command and contact Cisco Technical Support.

Fault Details

Severity: major
Service Profile-Related Faults

This section contains faults raised as a result of issues related to the service profile associated with a server.

fltLsComputeBindingAssignmentRequirementsNotMet

Fault Code: F0689

Message
Assignment of service profile [name] to server [pnDn] failed

Explanation
The server could not be assigned to the service profile. This fault typically occurs as a result of one of the following issues:

- The selected server doesn’t meet the requirements of the service profile.
- In case restricted migration was chosen, the selected server doesn’t match the currently or previously assigned server.

Recommended Action
If you see this fault, take the following action:

Step 1
Select a different server that meets the requirements of the service profile or matches the currently or previously assigned server

Fault Details
Severity: minor
Cause: assignment-failed
mibFaultCode: 689
mibFaultName: fltLsComputeBindingAssignmentRequirementsNotMet
moClass: ls:ComputeBinding
Type: server

fltLsServerAssociationFailed

Fault Code: F0332

Message
Service profile [name] association failed for [pnDn]
Explanation
The service profile could not be associated with the server. This fault typically occurs because the Cisco UCS Manager cannot communicate with one or more of the following:

- Fabric interconnect
- BMC on the server
- SAS controller driver
- Server

Recommended Action
If you see this fault, take the following actions:

Step 1
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2
Check the FSM tab for the server and service profile to determine why the association failed.

Step 3
If the server is stuck in an inappropriate state, such as booting, power cycle the server.

Step 4
Execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

Severity: major
Cause: association-failed
mibFaultCode: 332
mibFaultName: fltLsServerAssociationFailed
moClass: ls:Server
Type: server

fltLsServerConfigFailure

Fault Code:F0327

Message
Service profile [name] configuration failed due to [configQualifier]

Explanation
The named configuration qualifier is not available. This fault typically occurs because the Cisco UCS Manager cannot successfully deploy the service profile due to a lack of resources that meet the named qualifier. For example, this fault can occur if:

- The service profile is configured for a server adapter with vHBAs, and the adapter on the server does not support vHBAs.
- The local disk configuration policy in the service profile specifies the No Local Storage mode, but the server contains local disks.

Recommended Action
If you see this fault, take the following actions:
Service Profile-Related Faults

Step 1 If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2 Check the state of the server and ensure that it is in either the discovered or unassociated state.

Step 3 If the server is associated or undiscovered, do one of the following:
   - Discover the server.
   - Disassociate the server from the current service profile.
   - Select another server to associate with the service profile.

Step 4 Review each policy in the service profile and verify that the selected server meets the requirements in the policy.

Step 5 If the server does not meet the requirements of the service profile, do one of the following:
   - Modify the service profile to match the server.
   - Select another server that does meet the requirements to associate with the service profile.

Step 6 If you can verify that the server meets the requirements of the service profile, execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

Severity: major
Cause: configuration-failure
mibFaultCode: 327
mibFaultName: fltLsServerConfigFailure
moClass: ls:Server
Type: server

fltLsServerDiscoveryFailed

Fault Code:F0326

Message
Service profile [name] discovery failed

Explanation
The shallow discovery that occurs when the server associated with service profile fails. If the server is up and the data path is working, this fault typically occurs as a result of one of the following issues:

- The Cisco UCS Manager cannot communicate with the BMC on the server.
- The server cannot communicate with the fabric interconnect.

Recommended Action
If you see this fault, take the following actions:

Step 1 If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2 Check the FSM tab and view the current state of the server and any FSM operations.

Step 3 Check the error descriptions and see if any server components indicate a failure.
If the server or a server component has failed, do the following:

a. Check the operational state of the server.

b. If the server is not operable, re-acknowledge the server.

Execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

- **Severity**: major
- **Cause**: discovery-failed
- **mibFaultCode**: 326
- **mibFaultName**: fltLsServerDiscoveryFailed
- **moClass**: ls:Server
- **Type**: server

**fltLsServerFailed**

- **Fault Code**: F0324

**Message**

Service profile [name] failed

**Explanation**

The server has failed. This fault typically occurs if the adapter power on self-test results in major and critical errors.

**Recommended Action**

If you see this fault, take the following actions:

Step 1

If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2

Check the POST results for the server. In the Cisco UCS Manager GUI, you can access the POST results from the General tab for the server. In the Cisco UCS Manager CLI, you can access the POST results through the `show post` command under the scope for the server.

Step 3

Execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

- **Severity**: major
- **Cause**: server-failed
- **mibFaultCode**: 324
- **mibFaultName**: fltLsServerFailed
- **moClass**: ls:Server
- **Type**: server
**fltLsServerInaccessible**

**Fault Code:** F0331

**Message**
Service profile [name] cannot be accessed

**Explanation**
The Cisco UCS Manager cannot communicate with the BMC on the server. This fault typically occurs as a result of one of the following issues:
- The server port or ports have failed.
- The I/O module is offline.
- The BMC has failed.

**Recommended Action**
If you see this fault, take the following actions:

**Step 1** If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

**Step 2** If Cisco UCS Manager shows that the BMC is down, physically reseat the server.

**Step 3** If the Cisco UCS Manager shows that the server ports have failed, attempt to enable them.

**Step 4** If the I/O module is offline, check for faults on that component.

**Step 5** Execute the `show tech-support` command and contact Cisco Technical Support.

**Fault Details**
- **Severity:** major
- **Cause:** server-inaccessible
- **mibFaultCode:** 331
- **mibFaultName:** fltLsServerInaccessible
- **moClass:** ls:Server
- **Type:** server

**fltLsServerMaintenanceFailed**

**Fault Code:** F0329

**Message**
Service profile [name] maintenance failed

**Explanation**
The Cisco UCS Manager currently does not use this fault.

**Recommended Action**
If you see this fault, take the following actions:
Service Profile-Related Faults

Step 1
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2
Execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details
- **Severity:** major
- **Cause:** maintenance-failed
- **mibFaultCode:** 329
- **mibFaultName:** `fltLsServerMaintenanceFailed`
- **moClass:** `ls:Server`
- **Type:** server

### `fltLsServerRemoved`

**Fault Code:** F0330

**Message**
Service profile [name] underlying resource removed

**Explanation**
The Cisco UCS Manager cannot access the server associated with the service profile. This fault typically occurs as a result of one of the following issues:
- The server has been physically removed from the slot.
- The server is not available.

**Recommended Action**
If you see this fault, take the following actions:

**Step 1**
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

**Step 2**
If the server was removed from the slot, reinsert the server in the slot.

**Step 3**
If the server was not removed, remove and reinsert the server. **NOTE:** If the server is operable, this action can be disruptive to current operations.

**Step 4**
Execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details
- **Severity:** major
- **Cause:** equipment-removed
- **mibFaultCode:** 330
- **mibFaultName:** `fltLsServerRemoved`
- **moClass:** `ls:Server`
- **Type:** server
Service Profile-Related Faults

fltLsServerServer-unfulfilled

Fault Code:F0337

Message
Server [pnDn] does not fulfill Service profile [name] due to [configQualifier]

Explanation
The server no longer meets the qualification requirements of the service profile. This fault typically occurs as a result of one of the following issues:

- The server has been physically changed.
- A required component of the server has failed.

Recommended Action
If you see this fault, take the following actions:

---

Step 1 If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2 Check the server inventory compare to the service profile qualifications.

Step 3 If the server inventory does not match the service profile qualifications, do one of the following:

- Associate the server with a different service profile.
- Ensure the server has sufficient resources to qualify for the current service profile.

Step 4 Execute the show tech-support command and contact Cisco Technical Support.

---

Fault Details
Severity: warning
Cause: server-failed
mibFaultCode: 337
mibFaultName: fltLsServerServerUnfulfilled
moClass: ls:Server
Type: server

fltLsServerUnassociated

Fault Code:F0334

Message
Service profile [name] is not associated

Explanation
The service profile has not yet been associated with a server or a server pool. This fault typically occurs as a result of one of the following issues:

- There is no acceptable server in the server pool.
- The association failed.
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Recommended Action
If you see this fault, take the following actions:

---

Step 1  If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2  If you did not intend to associate the service profile, ignore the fault.

Step 3  If you did intend to associate the service profile, check the association failure fault.

Step 4  Execute the `show tech-support` command and contact Cisco Technical Support.

---

Fault Details
Severity: warning
Cause: unassociated
mibFaultCode: 334
mibFaultName: fltLsServerUnassociated
moClass: ls:Server
Type: server

fltLsmaintMaintPolicyUnresolvableScheduler

Fault Code:F0795

Message
Schedule [schedName] referenced by maintenance policy [name] does not exist

Explanation
The schedule that is referenced by the maintenance policy does not exist. This fault typically occurs as a result of one of the following issues:

- The schedule does not exist.
- The schedule was deleted.

Recommended Action
If you see this fault, take the following actions:

---

Step 1  If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2  Check if the named schedule exists. If it is deleted or missing, try to create it.

Step 3  Execute the `show tech-support` command and contact Cisco Technical Support.

---

Fault Details
Severity: warning
Cause: non-existent-scheduler
mibFaultCode: 795
mibFaultName: fltLsmaintMaintPolicyUnresolvableScheduler
moClass: lsmaint:MaintPolicy
Type: server
System Event Log-Related Faults

This section contains faults raised as a result of issues related to the system event log (SEL) in the Cisco UCS instance.

fltSysdebugAutoCoreFileExportTargetAutoCoreTransferFailure

Fault Code:F0747

Message
Auto core transfer failure at remote server [hostname]:[path] [exportFailureReason]

Explanation
Cisco UCS Manager cannot transfer core file to remote tftp server. This fault typically occurs as a result of one of the following issues:

- The remote server is not accessible.
- The parameters as specified in the core-export-target, such as path, port and server-name, are incorrect.

Recommended Action
If you see this fault, take the following actions:

Step 1  If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.
Step 2  Verify the connectivity to the remote server.
Step 3  Verify the path information of the remote server.
Step 4  Execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details
Severity: warning
Cause: tftp-server-error
mibFaultCode: 747
mibFaultName: fltSysdebugAutoCoreFileExportTargetAutoCoreTransferFailure
moClass: sysdebug:AutoCoreFileExportTarget
Type: sysdebug

fltSysdebugMEpLogMEpLogFull

Fault Code:F0462

Message
Log capacity on [side] IOM [chassisId]/[id] is [capacity]Log capacity on Management Controller on server [chassisId]/[slotId] is [capacity]Log capacity on Management Controller on server [id] is [capacity]
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**Explanation**

This fault typically occurs because the Cisco UCS Manager could not transfer the SEL file to the location specified in the SEL policy.

**Recommended Action**

If you see this fault, take the following actions:

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 1</td>
<td>Verify the configuration of the SEL policy to ensure that the location, user, and password provided are correct.</td>
</tr>
<tr>
<td>Step 2</td>
<td>This is an info level fault and can be ignored if you do not want to clear the SEL at this time.</td>
</tr>
<tr>
<td>Step 3</td>
<td>If this does not resolve the problem, execute the <code>show tech-support</code> command and contact Cisco Technical Support.</td>
</tr>
</tbody>
</table>

**Fault Details**

- **Severity:** info
- **Cause:** log-capacity
- **mibFaultCode:** 462
- **mibFaultName:** fltSysdebugMEpLogMEpLogFull
- **moClass:** sysdebug:MEpLog
- **Type:** operational

**fltSysdebugMEpLogMEpLogLog**

**Fault Code:** F0460

**Message**

Log capacity on [side] IOM [chassisId]/[id] is [capacity].Log capacity on Management Controller on server [chassisId]/[slotId] is [capacity].Log capacity on Management Controller on server [id] is [capacity].

**Explanation**

This fault typically occurs because the Cisco UCS Manager has detected that the system event log (SEL) on the server is approaching full capacity. The available capacity in the log is low.

**Recommended Action**

If you see this fault, take the following actions:

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 1</td>
<td>If desired, clear the SEL in the Cisco UCS Manager.</td>
</tr>
<tr>
<td>Step 2</td>
<td>This is an info level fault and can be ignored if you do not want to clear the SEL at this time.</td>
</tr>
</tbody>
</table>

**Fault Details**

- **Severity:** info
- **Cause:** log-capacity
- **mibFaultCode:** 460
- **mibFaultName:** fltSysdebugMEpLogMEpLogLog
- **moClass:** sysdebug:MEpLog
- **Type:** operational
Chapter 2  Cisco UCS Faults

System Event Log-Related Faults

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fltSysdebugMEpLogMEpLogVeryLow

Fault Code: F0461

Message
Log capacity on [side] IOM [chassisId]/[id] is [capacity]Log capacity on Management Controller on server [chassisId]/[slotId] is [capacity]Log capacity on Management Controller on server [id] is [capacity]

Explanation
This fault typically occurs because the Cisco UCS Manager has detected that the system event log (SEL) on the server is almost full. The available capacity in the log is very low.

Recommended Action
If you see this fault, take the following actions:

---

Step 1  If desired, clear the SEL in the Cisco UCS Manager.
Step 2  This is an info level fault and can be ignored if you do not want to clear the SEL at this time.
---

Fault Details
Severity: info
Cause: log-capacity
mibFaultCode: 461
mibFaultName: fltSysdebugMEpLogMEpLogVeryLow
moClass: sysdebug:MEpLog
Type: operational

fltSysdebugMEpLogTransferError

Fault Code: F0532

Message
Server [chassisId]/[slotId] [type] transfer failed: [operState]Server [id] [type] transfer failed: [operState]

Explanation
This fault occurs when transfer of the managed end point log files such as SEL, fails.

Recommended Action
If you see this fault, take the following actions:

---

Step 1  If its a SEL related error, check the connectivity to the CIMC.
Step 2  If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.
Step 3  Execute the `show tech-support` command and contact Cisco Technical Support.
---
Traffic Monitoring-related Faults

This section contains faults caused by issues related to traffic monitoring.

fltFabricMonSpanConfigFail

Fault Code:F0757

Message
Configuration for traffic monitor [name] failed, reason: [configFailReason]

Explanation
This fault typically occurs when the configuration put under traffic monitoring session is not correct.

Recommended Action
If you see this fault, take the following action:

Step 1 Correct the problem provided in the description of the raised fault.

Fault Details
  Severity: major
  Cause: config-error
  mibFaultCode: 757
  mibFaultName: fItFabricMonSpanConfigFail
  moClass: fabric:Mon
  Type: network
Virtual Network Interface-Related Faults

This section contains faults caused by issues related to a virtual network interface allocation in a service profile.

fltDcxNsFailed

Fault Code:F0304

Message
Server [chassisId]/[slotId] (service profile: [assignedToDn]) virtual network interface allocation failed.Server [id] (service profile: [assignedToDn]) virtual network interface allocation failed.

Explanation
The adaptor unit’s vif-namespace activation failed due to insufficient resources. The Cisco UCS Manager raises this fault when any of the following scenarios occur:

- The number of deployed vif resources exceeds the max vif resources available on the adaptor unit corresponding to the fabric interconnect

Recommended Action
If you see this fault, take the following actions:

Step 1 If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2 Check the Ns "size" and "used" resources to get the exceeded number.

Step 3 Unconfigure/delete the exceeded number of vNICs on the adaptor unit.

Step 4 Add additional fabric uplinks from IOM to the corresponding fabric interconnect and reacknowledge the chassis. That will increase the "NS size" on the adaptor

Step 5 Execute the show tech-support command and contact Cisco Technical Support.

Fault Details
Severity: major
Cause: insufficient-resources
mibFaultCode: 304
mibFaultName: fltDcxNsFailed
moClass: dcx:Ns
Type: server

fltDcxVIfLinkState

Fault Code:F0479

Message
Virtual interface [id] link state is down
Virtual Network Interface-Related Faults

Explanation
This fault occurs when Cisco UCS cannot send or receive data through an uplink port.

Recommended Action
If you see this fault, take the following actions:

---

Step 1
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2
Re-enable the uplink port that has failed.

Step 3
If the above action did not resolve the issue, execute the `show-tech-support` command.

Step 4
Contact Cisco Technical Support.

---

Fault Details

**Severity:** major
**Cause:** vif-down
**mibFaultCode:** 479
**mibFaultName:** fltDcxVIfLinkState
**moClass:** dcx:VIf
**Type:** management

---

fltDcxVcDown

Fault Code:F0283

Message
[transport] VIF [chassisId] / [slotId] [switchId]-[id] down, reason: [stateQual][transport] VIF [chassisId] / [id] [switchId]-[id] down, reason: [stateQual]

Explanation
The transport VIF for server is down. The Cisco UCS Manager raises this fault when any of the following scenario occur:

- Endpoint(switch/fabric interconnect) reports the connectivity state on virtual interface as one of:
  - a.down, b.errored, c.unavailable.

Recommended Action
If you see this fault, take the following actions:

---

Step 1
If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2
Verify that the blade discovery was completed successfully. Check the states on all of the communicating ports in an end to end manner.

Step 3
If connectivity seems correct, recommission the server.

Step 4
Execute the `show tech-support` command and contact Cisco Technical Support.
Virtual Network Interface-Related Faults

Fault Details

Severity: major
Cause: link-down
mibFaultCode: 283
mibFaultName: fltDcxVcDown
moClass: dcx:Vc
Type: network

fltDcxVcMgmt-vif-down

Fault Code:F0459

Message
IOM [chassisId] / [slotId] ([switchId]) management VIF [id] down, reason [stateQual]

Explanation
transport VIF for IO-Module is downCisco UCS Manager raises this fault when any of the following scenario occur:

- Endpoint(switch/fabric interconnect) reports the connectivity state on virtual interface as one of:
  a. down b. errored c. unavailable

Recommended Action
If you see this fault, take the following actions:

---

1. If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.
2. Verify that the chassis discovery has gone through successfully. Check the states on all communicating ports in end to end manner.
3. If connectivity seems correct, recommision the chassis.
4. Execute the show tech-support command and contact Cisco Technical Support.
---

Fault Details

Severity: major
Cause: cmc-vif-down
mibFaultCode: 459
mibFaultName: fltDcxVcMgmtVifDown
moClass: dcx:Vc
Type: network
VLAN-Related Faults

This section contains faults caused by issues related to a VLAN fault.

fltFabricVlanPrimaryVlanMissingIsolated

Fault Code:F0620

Message
Primary Vlan can not be resolved for isolated vlan [name]

Explanation
This fault typically occurs when Cisco UCS Manager encountered a problem resolving the primary vlan Id corresponding to a particular isolated vlan.

Recommended Action
If you see this fault, take the following actions:

Step 1  Associate the isolated vlan with a valid primary vlan.
Step 2  Execute the show tech-support command and contact Cisco Technical Support.

Fault Details

Severity: minor
Cause: primary-vlan-missing-isolated
mibFaultCode: 620
mibFaultName:fltFabricVlanPrimaryVlanMissingIsolated
moClass: fabric:Vlan
Type: network

fltSwVlanPortNsResourceStatus

Fault Code:F0549

Message
Vlan-Port Resource exceeded

Explanation
port vlan count has exceeded the allowed max limit on the switchCisco UCS Manager raises this fault when any of the following scenario occur:

- The total number of user deployed vlan port instances(access domain + border domain) in the system exceeds the max allowed limit

Recommended Action
If you see this fault, take the following actions:
Step 1  If the fault occurs in the Cisco UCS Manager GUI, capture one or more screenshots of the fault message and other related areas.

Step 2  Check the exceeded count on fabric interconnect through GUI & CLI.

Step 3  The vlan port count can be reduced in one of the following ways:

- Delete some vlans from LAN cloud
- Remove some vlans under vnics
- Unconfigure some vnics
- Unconfigure some uplink ethernet ports on the switch

Step 4  Execute the `show tech-support` command and contact Cisco Technical Support.

Fault Details

- **Severity:** critical
- **Cause:** limit-reached
- **mibFaultCode:** 549
- **mibFaultName:** fltSwVlanPortNsResourceStatus
- **moClass:** sw:VlanPortNs
- **Type:** management

VSAN-Related Faults

This section contains faults caused by issues related to a VSAN fault.

**fltFabricVsanEpErrorDisabled**

**Fault Code:** F0797

**Message**

[type] Port [slotId]/[portId] on fabric interconnect [switchId] has VSAN [id] in error disabled state
Port channel [portId] on fabric interconnect [switchId] has VSAN [id] in error disabled state

**Explanation**

This fault typically occurs when a port is assigned to a VSAN that exists in the restricted range (3840-4078) or VSAN 4079 which is reserved.

**Recommended Action**

If you see this fault, take the following action:

1. If VSAN is in the restricted range (3840-4078).
2. Delete the port channels on the fabric-interconnect.
4. Switch to FC switch mode.
Step 5  If VSAN is reserved (4079), move the port to non reserved VSAN.

Fault Details

Severity: major
Cause: vsan-misconfigured
mibFaultCode: 797
mibFaultName: f1tFabricVsaaEpErrorDisabled
moClass: fabric:VsanEp
Type: network

fltFabricVsaaErrorDisabled

Fault Code:F0796

Message
VSAN [name] is [operState]

Explanation
This fault typically occurs when VSAN exists in the range (3840-4078) and FC end host mode is enabled.

Recommended Action
If you see this fault, take the following action:

Step 1  Delete the port channels on the fabric-interconnect.
Step 2  Disable uplink trunking on the fabric-interconnect.
Step 3  Switch to FC switch mode.

Fault Details

Severity: major
Cause: vsan-misconfigured
mibFaultCode: 796
mibFaultName: f1tFabricVsaaErrorDisabled
moClass: fabric:Vsan
Type: network