



Storage-Related Faults

This chapter contains the following sections:

- [fltStorageControllerInoperable](#), on page 1
- [fltStorageControllerPatrolReadFailed](#), on page 2
- [fltStorageFlexFlashCardInoperable](#), on page 3
- [fltStorageFlexFlashCardMissing](#), on page 4
- [fltStorageFlexFlashControllerInoperable](#), on page 4
- [fltStorageFlexFlashControllerUnhealthy](#), on page 5
- [fltStorageFlexFlashVirtualDriveDegraded](#), on page 6
- [fltStorageFlexFlashVirtualDriveInoperable](#), on page 7
- [fltStorageLocalDiskCopybackFailed](#), on page 7
- [fltStorageLocalDiskDegraded](#), on page 8
- [fltStorageLocalDiskInoperable](#), on page 9
- [fltStorageLocalDiskLinkDegraded](#), on page 10
- [fltStorageLocalDiskMissing](#), on page 10
- [fltStorageLocalDiskRebuildFailed](#), on page 11
- [fltStorageRaidBatteryDegraded](#), on page 11
- [fltStorageRaidBatteryInoperable](#), on page 12
- [fltStorageRaidBatteryRelearnAborted](#), on page 13
- [fltStorageRaidBatteryRelearnFailed](#), on page 14
- [fltStorageSasExpanderAccessibility](#), on page 14
- [fltStorageSasExpanderDegraded](#), on page 15
- [fltStorageVirtualDriveDegraded](#), on page 16
- [fltStorageVirtualDriveInoperable](#), on page 17
- [fltStorageVirtualDriveConsistencyCheckFailed](#), on page 17
- [fltStorageVirtualDriveReconstructionFailed](#), on page 18

fltStorageControllerInoperable

Fault Code

F1004

Description

Storage controller SLOT-[Id] inoperable: reseal or replace the storage controller.

Explanation

This fault indicates a non-recoverable storage controller failure.

Recommended Action

If you see this fault, take the following actions:

1. Reseat or replace the storage controller. Before replacing this component, see the server-specific Installation and Service Guide for prerequisites, safety recommendations, and warnings.
2. If the problem still persists, create a tech-support file and contact Cisco TAC.

Fault Details

Severity: warning

Cause: equipment-inoperable

mibFaultCode: 1004

mibFaultName: fltStorageControllerInoperable

moClass: storage:Controller

Type: equipment

fltStorageControllerPatrolReadFailed

Fault Code

F1003

Description

Storage controller [Id] patrol read failed: patrol read can't be started

Explanation

This fault indicates that the review of the storage system for potential physical disk errors has failed.

Recommended Action

If you see this fault, take the following actions:

1. Initiate a consistency check on the virtual drive.
2. Replace any faulty physical drives.

Before replacing this component, see the server-specific Installation and Service Guide for prerequisites, safety recommendations and warnings.

Fault Details

Severity: warning

Cause: equipment-inoperable

mibFaultCode: 1003

mibFaultName: fltStorageControllerPatrolReadFailed

moClass: storage:Controller

Type: equipment

fltStorageFlexFlashCardInoperable

Fault Code

F1258

Description

Flex Flash Local disk 2 is inoperable: reseal or replace the local disk 2.

Explanation

This fault indicates that the flex flash card is inoperable.

Recommended Action

If you see this fault, take the following actions:

1. Insert the disk in a supported slot.

2. Remove and re-insert the card, or replace the card.

Before installing or replacing this component, see the server-specific Installation and Service Guide for prerequisites, safety recommendations, and warnings.

3. If the problem still persists, create a tech-support file and contact Cisco TAC.

Fault Details

Severity: info

Cause: equipment-inoperable

mibFaultCode: 1258

mibFaultName: fltStorageFlexFlashCardInoperable

moClass: storage:LocalDisk

fltStorageFlexFlashCardMissing

Fault Code

F1259

Description

Flex Flash Local disk 2 missing: reseal or replace Flex Flash Local disk.

Explanation

This fault occurs when the Flex Flash drive is removed from the slot when the server is still in use.

Recommended Action

If you see this fault, take the following actions:

1. Insert the disk in a supported slot.
2. Remove and re-insert the card, or replace the card.

Before installing or replacing this component, see the server-specific Installation and Service Guide for prerequisites, safety recommendations and warnings.

3. If the problem still persists, create a tech-support file and contact Cisco TAC.

Fault Details

Severity: info

Cause: equipment-inoperable

mibFaultCode: 1259

mibFaultName: fltStorageFlexFlashCardMissing

moClass: storage:LocalDisk

moClass: equipment

fltStorageFlexFlashControllerInoperable

Fault Code

F1257

Description

Flex Flash controller FlexFlash-0 inoperable: reseal or replace the flex controller.

Explanation

This fault indicates a non-recoverable flex flash controller failure. This fault occurs when the CIMC is not able to manage or communicate with the flex flash controller.

Recommended Action

If you see this fault, take the following action:

1. Reset the flex flash controller.
2. If the problem still persists, create a tech-support file and contact Cisco TAC.

Fault Details

Severity: major

Cause: equipment-inoperable

mibFaultCode: 1257

mibFaultName:fltStorageControllerInoperable

moClass: storage:Controller

Type: equipment

fltStorageFlexFlashControllerUnhealthy

Fault Code

F1262

Description

Flex Flash controller FlexFlash-0 configuration error: configure the flex controller correctly.

Explanation

This fault indicates that there is a mismatch in the mode or the size of the SD cards.

Recommended Action

If you see this fault, take the following actions:

1. Check the controller status and make sure that the firmware mode matches the SD Cards mode.
2. Check whether the VDs are in a healthy state.
3. Check the size of the SD cards and make sure both the cards match in size.
4. If the problem persists, create a tech-support file and contact Cisco TAC.

Fault Details

Severity: warning

Cause: equipment-unhealthy

mibFaultCode: 1262

mibFaultName: fltStorageFlexFlashControllerUnhealthy

moClass: storage:Controller

Type: equipment

fltStorageFlexFlashVirtualDriveDegraded

Fault Code

F1260

Description

Flex Flash Virtual Drive 1 Degraded: please check the flash device or the controller.

Explanation

This fault indicates a recoverable error with the Flex Flash virtual drive.

Recommended Action

If you see this fault, take the following actions:

1. Synchronize the virtual drive manually using the CIMC Web UI to make the VD optimal.
2. If the problem persists, then the virtual drives might need to be reconfigured. When reconfiguring virtual drives, enable auto-sync, which automatically syncs the data in the virtual drives.

See the server-specific Installation and Service Guide for prerequisites, safety recommendations, and warnings.

3. If the problem still persists, create a tech-support file and contact Cisco TAC.

Fault Details

Severity: warning

Cause: equipment-degraded

mibFaultCode: 1260

mibFaultName: fltStorageFlexFlashVirtualDriveDegraded

moClass: storage:VirtualDrive

Type: equipment

fltStorageFlexFlashVirtualDriveInoperable

Fault Code

F1261

Description

Flex Flash Virtual Drive 5 (Hypervisor) is Inoperable: Check flex controller properties or Flex Flash disks.

Explanation

This fault indicates a non-recoverable error with the Flex Flash virtual drive.

Recommended Action

If you see this fault, take the following actions:

1. If the data on the drive is accessible, back up and recreate the virtual drive. Optimize the virtual drive either by manually syncing through CIMC Web UI, or by selecting auto-sync option when creating the virtual drives.
2. Replace any faulty Flex Flash drives.
Before replacing this component, see the server-specific Installation and Service Guide for prerequisites, safety recommendations, and warnings.
3. If the problem still persists, create a tech-support file and contact Cisco TAC.

Fault Details

Severity: Critical

Cause: equipment-inoperable

mibFaultCode: 1261

mibFaultName: fltStorageFlexFlashVirtualDriveInoperable

moClass: storage:VirtualDrive

Type: equipment

fltStorageLocalDiskCopybackFailed

Fault Code

F1006

Description

Storage Local disk [Id] is inoperable: reseal or replace the storage drive [Id].

Explanation

This fault indicates a physical disk copyback failure. This fault could indicate a physical drive problem or an issue with the RAID configuration.

Recommended Action

If you see this fault, take the following actions:

1. Replace the physical drive and check to see whether the issue is resolved after a rebuild.
Before replacing this component, see the server-specific Installation and Service Guide for prerequisites, safety recommendations, and warnings.
2. Reseat or replace the storage controller.
3. Check configuration options for the storage controller in the MegaRAID ROM configuration page.

Fault Details

Severity: warning

Cause: equipment-offline

mibFaultCode: 1006

mibFaultName: fltStorageLocalDiskCopybackFailed

moClass: storage:LocalDisk

Type: equipment

fltStorageLocalDiskDegraded

Fault Code

F0996

Description

Storage Local disk [Id] is degraded: please check if rebuild or copyback of drive is required.

Explanation

This fault indicates a recoverable error with the storage drive.

Recommended Action

If you see this fault, take the following actions:

1. If the drive state is "rebuild" or "copyback", wait for the rebuild or copyback operation to complete.
2. If the drive state is "predictive-failure", replace the disk.
3. If the problem still persists, create a tech-support file and contact Cisco TAC.

Fault Details

Severity: warning

Cause: equipment-degraded

mibFaultCode: 996

mibFaultName: fltStorageLocalDiskDegraded

moClass: storage:LocalDisk

Type: equipment

fltStorageLocalDiskInoperable

Fault Code

F0181

Description

Storage Local disk [Id] is inoperable: reseal or replace the storage drive [Id].

Explanation

This fault occurs when the local disk has become inoperable or has been removed when the server was in use.

Recommended Action

If you see this fault, take the following actions:

1. Insert the disk in a supported slot.
2. Remove and re-insert the local disk or replace the disk.
Before installing or replacing this component, see the server-specific Installation and Service Guide for prerequisites, safety recommendations and warnings.
3. If the problem still persists, create a tech-support file and contact Cisco TAC.

Fault Details

Severity: major

Cause: equipment-inoperable

mibFaultCode: 181

mibFaultName: fltStorageLocalDiskInoperable

moClass: storage:LocalDisk

fltStorageLocalDiskLinkDegraded

Fault Code

F1688

Description

Storage Local disk 10 drive link status/speed changed with SAS expander 1: reseal or replace the storage drive 10.

Explanation

This fault occurs when any of the SAS links that connect a drive with the SAS Expander is down.

Recommended Action

If you see this fault, take the following actions:

1. Reseat or replace any faulty storage drive.

Before replacing this component, see the server-specific Installation and Service Guide for prerequisites, safety recommendations, and warnings.

2. If the problem still persists, create a tech-support file and contact Cisco TAC.

Fault Details

Severity: minor

Cause: connectivity-problem

mibFaultCode: F1688

mibFaultName: fltStorageLocalDiskLinkDegraded

moClass: storage:LocalDiskLink

Type: equipment

fltStorageLocalDiskMissing

Fault Code

F1256

Description

Storage Local disk [Id] is inoperable: reseal or replace the storage drive [Id].

Explanation

This fault occurs when the storage drive is removed from its slot while the server is still in use.

Recommended Action

If you see this fault, insert the missing disk.

Fault Details

Severity: info

Cause: equipment-missing

mibFaultCode: 1256

mibFaultName: fltStorageLocalDiskMissing

moClass: storage:LocalDisk

Type: equipment

fltStorageLocalDiskRebuildFailed

Fault Code

F1005

Description

Storage Local disk [Id] is rebuild failed: please check the storage drive [Id].

Explanation

This fault indicates a failure in the rebuild process of the local disk.

Recommended Action

If you see this fault, restart the rebuild process.

Fault Details

Severity: major

Cause: equipment-offline

mibFaultCode: 1005

mibFaultName: fltStorageLocalDiskRebuildFailed

moClass: storage:LocalDisk

Type: equipment

fltStorageRaidBatteryDegraded

Fault Code

F0997

Description

Storage Raid battery [Id] Degraded: check the raid battery.

Explanation

This fault indicates failure in the controller battery backup unit.

Recommended Action

If you see this fault, reseal or replace the battery backup unit on the storage controller.

**Note**

Before replacing this component, see the server-specific Installation and Service Guide for prerequisites, safety recommendations, and warnings.

Fault Details

Severity: warning

Cause: equipment-degraded

mibFaultCode: 997

mibFaultName: fltStorageRaidBatteryDegraded

moClass: storage:RaidBattery

Type: equipment

fltStorageRaidBatteryInoperable

Fault Code

F0531

Description

Storage Raid battery [Id] inoperable: check the raid battery.

Explanation

This fault occurs when the RAID battery voltage is below the normal operating range.

Recommended Action

If you see this fault, take the following actions:

1. Replace the RAID battery.

Before replacing this component, see the server-specific Installation and Service Guide for prerequisites, safety recommendations, and warnings.

2. If the problem still persists, create a tech-support file and contact Cisco TAC.

Fault Details

Severity: major

Cause: equipment-inoperable

mibFaultCode: 531

mibFaultName: fltStorageRaidBatteryInoperable

moClass: storage:RaidBattery

Type: equipment

fltStorageRaidBatteryRelearnAborted

Fault Code

F0998

Description

Storage Raid battery [Id] relearn aborted: check the raid battery.

Explanation

This fault indicates that a controller battery relearn process was aborted.

Recommended Action

If you see this fault, take the following actions:

1. Restart the relearn process for the battery backup unit.
2. Reseat the battery backup unit.
3. Replace the battery backup unit if it has exceeded 100 relearn cycles.

Before replacing this component, see the server-specific Installation and Service Guide for prerequisites, safety recommendations and warnings.

Fault Details

Severity: info

Cause: equipment-degraded

mibFaultCode: 998

mibFaultName: fltStorageRaidBatteryRelearnAborted

moClass: storage:RaidBattery

Type: equipment

fltStorageRaidBatteryRelearnFailed

Fault Code

F0999

Description

Storage Raid battery [id] relearn aborted : check the raid battery.

Explanation

This fault indicates a controller battery relearn failure.

Recommended Action

If you see this fault, take the following actions:

1. Restart the relearn process for the battery backup unit.
2. Reseat the battery backup unit.
3. Replace the battery backup unit if it has exceeded 100 relearn cycles.

Before replacing this component, see the server-specific Installation and Service Guide for prerequisites, safety recommendations, and warnings.

Fault Details

Severity: warning

Cause: equipment-degraded

mibFaultCode: 999

mibFaultName: fltStorageRaidBatteryRelearnFailed

moClass: storage:RaidBattery

Type: equipment

fltStorageSasExpanderAccessibility

Fault Code

F1686

Description

SAS Expander controller 1 is unreachable: SAS expander controller 1 might be rebooting. If this fault persists for more than 15 minutes, please contact Cisco TAC.

Explanation

This fault occurs when the CMC is not able to communicate with the SAS expander. The reasons could be a defective chassis or expander, or dead firmware in the expander.

Recommended Action

If you see this fault, take the following actions:

1. Replace the defective chassis.
2. If the problem persists for more than fifteen minutes, create a tech-support file and contact Cisco TAC.

Fault Details

Severity: major

Cause: equipment-inoperable

mibFaultCode: 1686

mibFaultName: fltStorageSasExpanderAccessibility

moClass: storage:SasExpander

Type: equipment

fltStorageSasExpanderDegraded

Fault Code

F1687

Description

SAS Expander controller 1 link speed changed with LSI RAID Controller of server board 2: reseal or replace the RAID controller of server board 2. If the issue still persists, please contact Cisco TAC.

Explanation

This fault occurs when any one of the SAS Links (6G or 12G) that connects the SAS expander to the LSI controller on the server board is down.

Recommended Action

If you see this fault, take the following actions:

1. Reseat or replace the RAID controller of the server board.
2. If reseating or replacing the RAID controller didn't work, replace the corresponding server board.
3. If the problem still persists, create a tech-support file and contact Cisco TAC.

Fault Details**Severity:** major**Cause:** connectivity-problem**mibFaultCode:** 1687**mibFaultName:** fltStorageSasExpanderDegraded**moClass:** storage:SAS Expander**Type:** connectivity

fltStorageVirtualDriveDegraded

Fault Code

F1008

Description

Storage Virtual Drive [Id] is inoperable: Check storage controller, or reseal the storage drive.

Explanation

This fault indicates a recoverable error with the virtual drive.

Recommended Action

If you see this fault, take the following actions:

1. Initiate a consistency check on the virtual drive.
2. Replace any faulty physical drives.

Before replacing this component, see the server-specific Installation and Service Guide for prerequisites, safety recommendations, and warnings.

3. If the problem still persists, create a tech-support file and contact Cisco TAC.

Fault Details**Severity:** warning**Cause:** equipment-degraded**mibFaultCode:** 1008**mibFaultName:** fltStorageVirtualDriveDegraded**moClass:** storage:VirtualDrive**Type:** equipment

fltStorageVirtualDriveInoperable

Fault Code

F1007

Description

Storage Virtual Drive [Id] is inoperable: Check storage controller, or reseal the storage drive.

Explanation

This fault indicates a non-recoverable error with the virtual drive.

Recommended Action

If you see this fault, take the following actions:

1. If the data on the drive is accessible, back up and recreate the virtual drive.
2. Replace any faulty physical drives.
Before replacing this component, see the server-specific Installation and Service Guide for prerequisites, safety recommendations, and warnings.
3. Check for controller errors in the MegaRAID ROM page logs.
4. If the problem still persists, create a tech-support file and contact Cisco TAC.

Fault Details

Severity: critical

Cause: equipment-inoperable

mibFaultCode: 1007

mibFaultName: fltStorageVirtualDriveInoperable

moClass: storage:VirtualDrive

Type: equipment

fltStorageVirtualDriveConsistencyCheckFailed

Fault Code

F1010

Description

Storage Virtual Drive [Id] Consistency Check Failed: please check the controller or reseal the physical drives.

Explanation

This fault indicates a consistency check failure with the virtual drive.

Recommended Action

If you see this fault, take the following actions:

1. Initiate a consistency check on the virtual drive.
2. Replace any faulty physical drives.

Before replacing this component, see the server-specific Installation and Service Guide for prerequisites, safety recommendations, and warnings.

Fault Details

Severity: warning

Cause: equipment-degraded

mibFaultCode: 982

mibFaultName: fltStorageVirtualDriveConsistencyCheckFailed

moClass: storage:VirtualDrive

Type: equipment

fltStorageVirtualDriveReconstructionFailed

Fault Code

F1009

Description

Storage Virtual Drive [Id] reconstruction failed: Check storage controller or reseal the storage drive.

Explanation

This fault indicates a failure in the reconstruction process of the virtual drive.

Recommended Action

If you see this fault, start the reconstruction process again.

Fault Details

Severity: warning

Cause: equipment-degraded

mibFaultCode: F1009

mibFaultName: fltStorageVirtualDriveReconstructionFailed

moClass: storage:VirtualDrive

Type: equipment

 **fltStorageVirtualDriveReconstructionFailed**