



## **acp events**

### ONTAP EMS reference

NetApp  
November 22, 2024

# Table of Contents

- acp events ..... 1
  - acp.auto events ..... 1
  - acp.bind events ..... 1
  - acp.commerr events ..... 1
  - acp.commerrpersist events ..... 2
  - acp.dev events ..... 2
  - acp.downrev events ..... 3
  - acp.exp events ..... 3
  - acp.fw events ..... 6
  - acp.init events ..... 7
  - acp.invalid events ..... 9
  - acp.ioxm events ..... 9
  - acp.locked events ..... 10
  - acp.need events ..... 11
  - acp.no events ..... 12
  - acp.post events ..... 12
  - acp.shelf events ..... 13
  - acp.sock events ..... 16
  - acp.update events ..... 16
  - acp.updateconfiguration events ..... 17
  - acp.upgrade events ..... 17
  - acp.voltage events ..... 18

# acp events

## acp.auto events

### acp.auto.upgrade

#### Severity

INFORMATIONAL

#### Description

This message occurs when the Alternate Control Path (ACP) Administrator determines that the ACP Processor has an older firmware image compared to the file revision present in '/etc/acp/acpp\_fw'. The ACP Administrator is performing an automatic firmware upgrade.

#### Corrective Action

(None).

#### Syslog Message

Performing automatic firmware upgrade (image: %s) on %s (%s).

#### Parameters

**file** (STRING): Command issued.

**inband\_id** (STRING): Inband ID of the module.

**ip** (STRING): IP address of the module.

## acp.bind events

### acp.bind.error

#### Severity

ERROR

#### Description

This message occurs when the system encounters a socket binding error while setting up the Alternate Control Path (ACP) Management Ethernet port. ACP functionality is inactive after encountering this.

#### Corrective Action

Verify that the Ethernet cable is properly attached to the ACP port and the green LED is on. Reenable the ACP port using the "options acp.enabled" command.

#### Syslog Message

An error was encountered while configuring the ACP Management Ethernet Port: %s.

#### Parameters

**ErrorString** (STRING): Error string.

## acp.commerr events

## acp.commErr

### Severity

ALERT

### Description

This message occurs when the Alternate Control Path (ACP) Administrator determines that the SAS shelf I/O module (IOM) that is configured for in-band ACP is experiencing communication errors.

### Corrective Action

Examine the event log for I/O errors that might have a common source such as faulty cabling, and correct them. If the errors persist, the IOM might need to be replaced. Contact NetApp technical support.

### Syslog Message

IOM %s is reporting multiple in-band ACP communication errors. Shelf serial number: %s.

### Parameters

**inband\_id** (STRING): Inband ID of the module.

**shelf\_sno** (STRING): Storage shelf serial number of the shelf where the I/O module is seated.

## acp.commerrpersist events

### acp.commErrPersist

### Severity

ALERT

### Description

This message occurs when the Alternate Control Path (ACP) Administrator determines that a SAS shelf I/O module (IOM) configured for in-band ACP is experiencing persistent communication errors.

### Corrective Action

Examine the event log for I/O errors that might have a common source with this problem, such as faulty cabling. If other devices are not experiencing failures, then contact NetApp technical support to replace the IOM.

### Syslog Message

IOM %s has failed after reporting multiple in-band ACP errors. Shelf serial number: %s.

### Parameters

**inband\_id** (STRING): Inband ID of the module.

**shelf\_sno** (STRING): Storage shelf serial number of the shelf where the IOM is seated.

## acp.dev events

### acp.dev.notify

### Severity

ERROR

## Description

This message occurs when the Alternate Control Path (ACP) Administrator encounters an error event in a development-only kernel.

## Corrective Action

Notify ACP development. No user action is needed.

## Syslog Message

ACP error: %s

## Parameters

**debug\_string** (STRING): Error statement that occurred in a development kernel.

# acp.downrev events

## acp.downrev.acpp

### Severity

ERROR

### Description

This message occurs when the Alternate Control Path Administrator cannot successfully download up-to-date firmware to an Alternate Control Path Processor (ACPP) or when the most up-to-date firmware image is not present in the `/etc/acpp_fw/` directory.

### Corrective Action

Verify that the latest ACPP firmware is available in the firmware directory. If the firmware update continually fails to download up-to-date firmware, then replace the ACPP I/O module.

### Syslog Message

ACPP module %s (%s) has downrev firmware.

### Parameters

**inband\_id** (STRING): In-band ID of the ACPP module.

**ip** (STRING): IP address of the ACPP module.

# acp.exp events

## acp.exp.power.cycle

### Severity

INFORMATIONAL

### Description

This message occurs when the Alternate Control Path (ACP) Processor receives a command to power-cycle the SAS expander.

### Corrective Action

(None).

## Syslog Message

SAS expander power-cycle request sent to %s (%s), (disk shelf serial number: %s).

## Parameters

**inband\_id** (STRING): In-band ID of the module.

**ip** (STRING): IP address of the module.

**status** (STRING): Status code returned by the 'expander power cycle' command.

## acp.exp.power.cycle.failed

### Severity

INFORMATIONAL

### Description

This message occurs when the Alternate Controller Path Administrator fails in its attempt to power-cycle the SAS expander.

### Corrective Action

(None).

## Syslog Message

SAS expander power-cycle request sent to %s (%s) failed with status (%s), (disk shelf serial number: %s).

## Parameters

**inband\_id** (STRING): In-band ID of the module.

**ip** (STRING): IP address of the module.

**status** (STRING): Reason for the 'expander power-cycle' failure.

**shelf\_sno** (STRING): Shelf serial number of the shelf where this I/O module is seated.

## acp.exp.power.cycle.success

### Severity

INFORMATIONAL

### Description

This message occurs when an 'expander power cycle' command sent to the Alternate Controller Path (ACP) Processor succeeds.

### Corrective Action

(None).

## Syslog Message

SAS expander power cycle command sent to %s (%s) was successful, (disk shelf serial number: %s).

## Parameters

**inband\_id** (STRING): In-band ID of the module.

**ip** (STRING): IP address of the module.

**shelf\_sno** (STRING): Disk shelf serial number of the shelf where this I/O module is seated.

## **acp.exp.reset**

### **Severity**

INFORMATIONAL

### **Description**

This message occurs when the Alternate Control Path (ACP) Processor receives a command to reset a SAS expander.

### **Corrective Action**

(None).

### **Syslog Message**

SAS expander reset issued to %s (%s), (disk shelf serial number: %s).

### **Parameters**

**inband\_id** (STRING): In-band ID of the module.

**ip** (STRING): IP address of the module.

**status** (STRING): Status code returned by the 'expander reset' command.

## **acp.exp.reset.failed**

### **Severity**

INFORMATIONAL

### **Description**

This message occurs when the Alternate Controller Path Administrator fails in its attempt to reset the SAS expander.

### **Corrective Action**

(None).

### **Syslog Message**

SAS expander reset request sent to %s (%s) failed with status (%s), (disk shelf serial number: %s).

### **Parameters**

**inband\_id** (STRING): In-band ID of the module.

**ip** (STRING): IP address of the module.

**status** (STRING): Reason for the 'expander reset' failure.

**shelf\_sno** (STRING): Disk shelf serial number of the shelf where this I/O module is seated.

## **acp.exp.reset.success**

### **Severity**

INFORMATIONAL

### **Description**

This message occurs when an 'expander reset' command sent to the Alternate Controller Path (ACP) Processor succeeds.

## Corrective Action

(None).

## Syslog Message

SAS expander reset command sent to %s (%s) was successful, (disk shelf serial number: %s).

## Parameters

**inband\_id** (STRING): In-band ID of the module.

**ip** (STRING): IP address of the module.

**shelf\_sno** (STRING): Disk shelf serial number of the shelf where this I/O module is seated.

## acp.exp.vpd.failed

### Severity

INFORMATIONAL

### Description

This message occurs when an attempt to get SAS expander VPD (Vital Product Data) data from the Alternate Control Path Processor fails.

### Corrective Action

(None).

### Syslog Message

An 'expander vpd' request sent to %s (%s) failed with status (%s), (disk shelf serial number: %s).

### Parameters

**inband\_id** (STRING): In-band ID of the module.

**ip** (STRING): IP address of the module.

**status** (STRING): Reason for the failure to get the SAS expander vpd data.

**shelf\_sno** (STRING): Disk shelf serial number of the shelf where this I/O module is seated.

## acp.fw events

### acp.fw.download

#### Severity

INFORMATIONAL

#### Description

This message occurs when the Alternate Control Path (ACP) Processor receives a command to initiate a firmware download.

#### Corrective Action

(None).

#### Syslog Message

Firmware image %s will be downloaded to %s (%s), (disk shelf serial number: %s).



## Parameters

**command** (STRING): Firmware image name.  
**inband\_id** (STRING): In-band ID of the module.  
**ip** (STRING): IP address of the module.  
**status** (STRING): Status code returned by the 'initiation' command.

## acp.fw.download.failed

### Severity

INFORMATIONAL

### Description

This message occurs when the Alternate Controller Path Administrator fails in its attempt to download firmware.

### Corrective Action

(None).

### Syslog Message

Firmware download on %s (%s) failed with status (%s), (disk shelf serial number: %s).

## Parameters

**inband\_id** (STRING): In-band ID of the module.  
**ip** (STRING): IP address of the module.  
**status** (STRING): Type of failure that occurred during the firmware download.  
**shelf\_sno** (STRING): Disk shelf serial number of the shelf where this I/O module is seated.

## acp.fw.download.success

### Severity

INFORMATIONAL

### Description

This message occurs when a 'firmware download' command sent to the Alternate Controller Path Processor succeeds.

### Corrective Action

(None).

### Syslog Message

Firmware download on %s (%s) was successful, (disk shelf serial number: %s).

## Parameters

**inband\_id** (STRING): In-band ID of the module.  
**ip** (STRING): IP address of the module.  
**shelf\_sno** (STRING): Disk shelf serial number of the shelf where this I/O module is seated.

## acp.init events

## acp.init.configIP

### Severity

ERROR

### Description

This message occurs when ONTAP® software cannot configure the Ethernet port designated for the Alternate Control Path (ACP) with 30 seconds, and marks the ACP as inactive.

### Corrective Action

Verify the connection to the disk shelf ACP port, and make sure that it is not connected to a public network. Try plugging it into another Ethernet port with no devices.

### Syslog Message

Could not configure the ACP Ethernet port within 30 seconds.

### Parameters

(None).

## acp.init.netmask

### Severity

INFORMATIONAL

### Description

This message occurs during initialization state, when the Alternate Control Path (ACP) Administrator netmask was configured incorrectly. The system sets the netmask to a default value.

### Corrective Action

(None).

### Syslog Message

Setting ACP Administrator netmask value to %s (reason: %s).

### Parameters

**value** (STRING): Default netmask.

**reason** (STRING): Reason to choose the default.

## acp.init.ssl

### Deprecated

Deprecated as of ONTAP® version 9.2. The ACP process was never really responsible for initializing SSL, and has not tried to do so for a very long time.

### Severity

ERROR

### Description

This message occurs when the Alternate Control Path (ACP) process cannot initialize the underlying Secure Socket Library (SSL). The ACP Administrator will be inactive.

**Corrective Action**

(None).

**Syslog Message**

Could not initialize SSL.

**Parameters**

(None).

## acp.invalid events

**acp.invalid.vpd.info****Severity**

ALERT

**Description**

This message occurs when the Alternate Control Path (ACP) system detects that an Alternate Control Path Processor (ACPP) has invalid VPD (Vital Product Data) info.

**Corrective Action**

Replace the Alternate Control Path Processor (ACPP).

**Syslog Message**

ACPP module %s (%s) has invalid VPD.

**Parameters**

**inband\_id** (STRING): In-band ID of the ACPP module.

**ip** (STRING): IP address of the ACPP module.

## acp.ioxm events

**acp.ioxm.port.down****Severity**

INFORMATIONAL

**Description**

This message occurs when the link status of one or more ports from the IOXM switch changes from "up" to "down".

**Corrective Action**

Verify that all cables in the IOXM switch ports are seated properly.

**Syslog Message**

IOXM switch port %d is down.

**Parameters**

**port\_num** (INT): Switch port number of the IOXM switch.

## acp.ioxm.port.up

### Severity

INFORMATIONAL

### Description

This message occurs when the link status of one or more ports from the IOXM switch changes from "down" to "up".

### Corrective Action

(None).

### Syslog Message

IOXM switch port %d is up.

### Parameters

**port\_num** (INT): Switch port number of the IOXM switch.

## acp.locked events

### acp.locked.wrench.link.down

### Severity

INFORMATIONAL

### Description

This message occurs when the link status of a locked wrench Ethernet port (on the back of the storage controller) changes from "up" to "down".

### Corrective Action

Verify that the cable in the port is seated properly.

### Syslog Message

The on-board locked wrench port is down.

### Parameters

(None).

### acp.locked.wrench.port.down

### Severity

ERROR

### Description

This message occurs when the link status of a locked wrench Ethernet port (on the back of the storage controller) changes from "up" to "down".

### Corrective Action

Verify that the cable in the port is seated properly.

## Syslog Message

The on-board locked wrench port is down; Alternate Control Path (ACP) management is inactive.

## Parameters

(None).

## acp.locked.wrench.port.up

## Severity

INFORMATIONAL

## Description

This message occurs when the link status of a locked wrench Ethernet port (on the back of the storage controller) changes from "down" to "up".

## Corrective Action

(None).

## Syslog Message

The on-board locked wrench port is up.

## Parameters

(None).

## acp.need events

## acp.need.firmware.update

## Severity

ERROR

## Description

This message occurs when the Alternate Control Path (ACP) Administrator determines that the ACP processor is running an older firmware revision that supports only the Secure Socket Library (SSL) channel. The "/etc/acpp\_fw" directory requires the latest firmware file for the update to succeed. This module is marked as inactive.

## Corrective Action

Copy the latest firmware file for this module into "/etc/acpp\_fw", and then use the "system node run -node <nodename> -command storage download acp" command to download the firmware.

## Syslog Message

ACP module %s (%s) needs a firmware upgrade, (disk shelf serial number: %s).

## Parameters

**inband\_id** (STRING): Inband ID of the module.

**ip** (STRING): IP address of the module.

**shelf\_sno** (STRING): Disk shelf serial number of the shelf where this I/O module is seated.

## acp.need.module.upgrade

### Severity

ERROR

### Description

This message occurs when the Alternate Control Path (ACP) Administrator determines that the I/O module (IOM) does not support InBand ACP.

### Corrective Action

Upgrade the IOM to IOM6 or later.

### Syslog Message

IOM %s does not support InBand ACP. Upgrade the IOM to IOM6 or later for supportability (disk shelf serial number: %s).

### Parameters

**inband\_id** (STRING): Inband ID of the module.

**shelf\_sno** (STRING): Disk shelf serial number of the shelf where this IOM is seated.

## acp.no events

### acp.no.ip

### Severity

ERROR

### Description

This message occurs when the node cannot find a free IP address for the Alternate Control Path (ACP) Management port. ACP functionality is disabled.

### Corrective Action

Check the connection to the disk shelf ACP port and verify that it is not connected to a public network. Try plugging it into another Ethernet port with no devices, to see whether it is changed.

### Syslog Message

Could not assign a free IP address to the ACP Management Ethernet port, disabling ACP functionality.

### Parameters

(None).

## acp.post events

### acp.post.data.failed

### Severity

INFORMATIONAL

### Description

This message occurs when a 'post data' request that was sent to the Alternate Controller Path Processor

fails.

### Corrective Action

(None).

### Syslog Message

A 'post data' request sent to %s (%s) failed with status (%s), (disk shelf serial number: %s).

### Parameters

**inband\_id** (STRING): In-band ID of the module.

**ip** (STRING): IP address of the module.

**status** (STRING): Reason for the 'post data' failure.

**shelf\_sno** (STRING): Disk shelf serial number of the shelf where this I/O module is seated.

## acp.shelf events

### acp.shelf.power.cycle.failed

#### Severity

INFORMATIONAL

#### Description

This message occurs when the Alternate Control Path (ACP) Processor fails to complete a power cycle of the disk shelf.

#### Corrective Action

(None).

#### Syslog Message

Disk shelf power cycle request issued to %s failed because %s.

#### Parameters

**shelf\_id** (STRING): In-band ID or Shelf Serial Number of the module.

**status** (STRING): Reason for failure.

### acp.shelf.power.cycle.success

#### Severity

INFORMATIONAL

#### Description

This message occurs when the Alternate Control Path (ACP) Processor successfully completes a power cycle of the disk shelf.

#### Corrective Action

(None).

#### Syslog Message

Disk shelf power cycle request issued to %s is successful.

## Parameters

**shelf\_id** (STRING): In-band ID or Shelf Serial Number of the module.

## acp.shelf.power.off

### Severity

INFORMATIONAL

### Description

This message occurs when the Alternate Control Path (ACP) Processor receives a command to power off the disk shelf.

### Corrective Action

(None).

### Syslog Message

Disk shelf power off request issued to %s

### Parameters

**shelf\_id** (STRING): In-band ID of the module or Shelf Serial Number.

## acp.shelf.power.off.failed

### Severity

INFORMATIONAL

### Description

This message occurs when the Alternate Controller Path Administrator fails in its attempt to power-off the SAS disk shelf.

### Corrective Action

(None).

### Syslog Message

Disk shelf power off request sent to %s failed with status %s

### Parameters

**shelf\_id** (STRING): In-band ID of the module.

**status** (STRING): Reason for the power-off failure.

## acp.shelf.power.off.success

### Severity

INFORMATIONAL

### Description

This message occurs when a 'shelf power off' command sent to the Alternate Controller Path (ACP) Processor succeeds.



**Corrective Action**

(None).

**Syslog Message**

Disk shelf power off command sent to %s was successful

**Parameters**

**shelf\_id** (STRING): In-band ID of the module or Shelf Serial Number.

**acp.shelf.power.on****Severity**

INFORMATIONAL

**Description**

This message occurs when the Alternate Control Path (ACP) Processor receives a command to power on a disk shelf.

**Corrective Action**

(None).

**Syslog Message**

Disk shelf power up request issued to %s

**Parameters**

**shelf\_id** (STRING): In-band ID of the module or Shelf Serial Number.

**acp.shelf.power.on.failed****Severity**

INFORMATIONAL

**Description**

This message occurs when the Alternate Controller Path Administrator fails in its attempt to power on the SAS disk shelf.

**Corrective Action**

(None).

**Syslog Message**

Disk shelf power on request sent to %s failed with status %s

**Parameters**

**shelf\_id** (STRING): In-band ID or Shelf Serial Number of the module.

**status** (STRING): Reason for the 'power-on' failure.

**acp.shelf.power.on.success****Severity**

INFORMATIONAL

## Description

This message occurs when a 'shelf power on' command sent to the Alternate Controller Path (ACP) Processor succeeds.

## Corrective Action

(None).

## Syslog Message

Disk shelf power on command sent to %s was successful

## Parameters

**shelf\_id** (STRING): In-band ID of the module or Shelf Serial Number.

# acp.sock events

## acp.sock.error

### Severity

ERROR

### Description

This message occurs when the system encounters a socket error while setting up the Alternate Control Path (ACP) Management Ethernet port. ACP functionality is subsequently inactive.

### Corrective Action

Verify that the Ethernet cable is properly attached to the ACP port and that the green LED is on. Reenable the ACP using the "options acp.enabled on" command.

### Syslog Message

An error was encountered while configuring the ACP Management Ethernet Port: %s.

### Parameters

**ErrorString** (STRING): Error string.

# acp.update events

## acp.update.failed

### Severity

ERROR

### Description

This message occurs when the Alternate Control Path (ACP) Administrator receives notification from the ACP Processor that it cannot upgrade the firmware because it is in some faulty state or the firmware file is not valid. The ACP processor will continue to run with the older firmware version.

### Corrective Action

Try issuing the firmware download again using the "system node run -node <nodename> -command storage download acp" command.

## Syslog Message

ACP module %s (%s) failed to upgrade firmware, (disk shelf serial number: %s).

## Parameters

**inband\_id** (STRING): Inband ID of the module.

**ip** (STRING): IP address of the module.

**shelf\_sno** (STRING): Disk shelf serial number of the shelf where this I/O module is seated.

# acp.updateconfiguration events

## acp.updateConfiguration

### Severity

ALERT

### Description

This message occurs when the Alternate Control Path (ACP) Administrator determines that the SAS shelf I/O module (IOM) supports only the in-band ACP configuration.

### Corrective Action

> Use the "storage shelf acp configure -channel in-band -is-enabled true" command to enable in-band ACP.

## Syslog Message

IOM %s in shelf S/N: %s does not support out-of-band ACP.

## Parameters

**inband\_id** (STRING): Inband ID of the module.

**shelf\_sno** (STRING): Storage shelf serial number of the shelf where the IOM is seated.

# acp.upgrade events

## acp.upgrade.successful

### Severity

INFORMATIONAL

### Description

This message occurs when the Alternate Control Path (ACP) Administrator determines that the ACP Processor has successfully upgraded the firmware.

### Corrective Action

(None).

## Syslog Message

ACP module %s (%s) successfully upgraded firmware, (disk shelf serial number: %s).

## Parameters

**inband\_id** (STRING): Inband ID of the module.

**ip** (STRING): IP address of the module.

**shelf\_sno** (STRING): Disk shelf serial number of the shelf where this I/O module is seated.

# acp.voltage events

## acp.voltage.status.failed

### Severity

INFORMATIONAL

### Description

This message occurs when a 'voltage status' request that was sent to the Alternate Controller Path Processor fails.

### Corrective Action

(None).

### Syslog Message

A voltage status request sent to %s (%s) failed with status (%s), (disk shelf serial number: %s).

### Parameters

**inband\_id** (STRING): In-band ID of the module.

**ip** (STRING): IP address of the module.

**status** (STRING): Reason for the 'voltage status' failure.

**shelf\_sno** (STRING): Disk shelf serial number of the shelf where this I/O module is seated.

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