



tapemc events

ONTAP EMS reference

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tapemc events

tapemc.alias events

tapemc.alias.addFail

Severity

ERROR

Description

This message occurs when the automatic addition of a tape or medium changer alias fails. Data ONTAP® might attempt to add aliases automatically at boot or when devices are added, if it determines that the devices have no existing aliases.

Corrective Action

Check the tape and medium changer aliases to ensure that they specify the desired devices. You can view, add, or delete aliases using the "storage alias/unalias" (7-Mode or Cluster-Mode nodeshell) commands.

Syslog Message

Unable to retrieve and add alias for %s device %s.

Parameters

deviceType (STRING): Type of device for which an alias addition failed.

deviceAddr (STRING): Address of the device for which an alias addition failed.

tapemc.alias.addOK

Severity

NOTICE

Description

This message occurs when a tape or medium changer alias is added successfully. Data ONTAP® might add aliases automatically at boot or when devices are added, if it determines that devices have no existing aliases.

Corrective Action

(None).

Syslog Message

Alias %s automatically added for %s device %s.

Parameters

alias (STRING): New alias of the device.

deviceType (STRING): Type of device.

deviceAddr (STRING): Address of the device.

tapemc.alias.max

Severity

ERROR

Description

This message occurs when Data ONTAP® automatically adds a tape or media changer alias, and the new number of aliases exceeds the maximum number of aliases allowed. Automatic alias addition can occur when new devices are discovered, or when device connections are changed.

Corrective Action

Delete any unused aliases with 'storage tape alias clear'.

Syslog Message

Could not add alias for %s device %s. The alias count exceeds the maximum of %d aliases.

Parameters

deviceType (STRING): Type of device.

deviceAddr (STRING): Address of the device.

max (INT): Maximum number of tape and media changer aliases allowed.

tapemc.alias.threshold

Severity

ERROR

Description

This message occurs when Data ONTAP® automatically adds a tape or media changer alias, and the new number of aliases exceeds an internal threshold. The alias is added, but additional aliases might not be added until other aliases are deleted. Automatic alias addition can occur when new devices are discovered, or when device connections are changed.

Corrective Action

Delete any unused aliases with 'storage tape alias clear'.

Syslog Message

Addition of alias %s for %s device %s totals %d aliases which exceeds threshold of %d tape/media changer aliases. The maximum number of aliases allowed is %d.

Parameters

alias (STRING): New alias of the device.

deviceType (STRING): Type of device.

deviceAddr (STRING): Address of the device.

count (INT): Current count of tape and media changer aliases.

threshold (INT): Internal threshold for number of tape and media changer aliases.

max (INT): Maximum number of tape and media changer aliases allowed.

tapemc.device events

tapemc.device.cmdAllocFail

Severity

ERROR

Description

This message occurs when Data ONTAP® cannot obtain a command block for sending operations to the device.

Corrective Action

This problem is probably a temporary resource shortage within Data ONTAP. Retry the operation.

Syslog Message

Failed to allocate SCSI command block for %s device %s.

Parameters

deviceType (STRING): Type of device on which the command allocation failed.

deviceName (STRING): Name of the device.

tapemc.device.lunNotConn**Severity**

ERROR

Description

This message occurs when the tape drive, media changer, or bridge device is reported as not being connected to its dependent LUN even though it indicated that the LUN device exists. Data ONTAP® cannot initialize the dependent device.

Corrective Action

Consult the vendor documentation for the attached device to ensure that the device is configured correctly.

Syslog Message

Aborting initialization of device %s at address L%d. The attached hardware indicates that no device is available at that LUN address.

Parameters

devName (STRING): Name of the device.

lun (INT): LUN number of this device.

tapemc.device.maxExceed**Severity**

ERROR

Description

This message occurs when more than the maximum supported number of devices of the reported type are attached to the controller.

Corrective Action

The reported device cannot be accessed. If other devices of the same type are attached but unused, removing them can allow the named device to be reattached and used. For FC devices, unplug the devices and wait for the messages that indicate the devices have been removed. For SCSI devices, use the

"storage adapter disable [name]" (7-Mode or Cluster-Mode nodeshell) command.

Syslog Message

Maximum number of %s devices exceeded. Device %s cannot be accessed. The maximum is %d.

Parameters

deviceType (STRING): Type of device that exceeded the maximum number allowed.

deviceName (STRING): Name of the device.

deviceMax (INT): Maximum number of devices of this device type.

tapemc.device.multipath

Severity

ERROR

Description

This message occurs when a tape drive or media changer is reported as having a multipath connection when alias mapping is WWNN-based. WWNN-based aliasing does not support multipath connections.

Corrective Action

Remove the multipath connection to the device. If multipathing is required: 1. Reboot or takeover the node and enter the boot menu (LOADER>) by pressing Ctrl+C when prompted. 2. Enter "unsetenv bootar.tape_mc.wwnn_alias?". 3. Enter "boot_ontap" to reboot the node. Aliasing will now be serial number-based.

Syslog Message

%s device "%s" has a multipath connection with WWNN-based alias mapping. Multipath configurations are only supported with serial number-based aliases.

Parameters

deviceType (STRING): Type of device.

deviceName (STRING): Name of the device.

tapemc.device.noSerial

Severity

ERROR

Description

This message occurs when the device can not return a serial number when requested to do so. The device can still be used, but the serial number will not be available for output.

Corrective Action

This condition might be normal, especially with older device types, because SCSI-2 does not require serial numbers. If the vendor documentation indicates that the serial number should be available (look for a serial number request as an option of the Inquiry command), the device might need to be repaired.

Syslog Message

Serial number not available for %s device %s, product ID %s.

Parameters

devType (STRING): SCSI device type.
devAddr (STRING): Device address.
prodID (STRING): Vendor product ID of the device.

tapemc.device.notExpected

Severity

ERROR

Description

This message occurs when Data ONTAP® expects a media changer, tape device or bridgerouter but encounters an unexpected or unknown device type.

Corrective Action

Consult the vendor documentation for the attached device to ensure that the device is configured correctly.

Syslog Message

Aborting device initialization for %s. Expecting a %s device but discovered an unexpected %s device type.

Parameters

devName (STRING): Name of the device.
expectedDevType (STRING): Expected SCSI device type.
actualDevType (STRING): Actual SCSI device type discovered.

tapemc.device.notSCSI2

Severity

ERROR

Description

This message occurs when Data ONTAP® requires that parallel SCSI and FC devices support, at a minimum, the SCSI-2 protocol. This device does not have the minimum support, and cannot be used with Data ONTAP unless it is upgraded.

Corrective Action

Verify with vendor documentation that the device supports at least the SCSI-2 protocol. If it does, then the device might need to be power-cycled or repaired. Check with the vendor whether an upgrade to SCSI-2 is possible.

Syslog Message

%s device %s not configured to support SCSI-2.

Parameters

devType (STRING): SCSI device type.
devAddr (STRING): Name of the device.

tapemc.device.releaseFail

Severity

ERROR

Description

This message occurs when Data ONTAP® cannot remove a SCSI Persistent Reservation from this device.

Corrective Action

Attempt the manual release of the reservation using the "storage release [tape|mc]" command (from the nodeshell in clustered environments) at the advanced privilege level. If the error persists, the device might need to be power-cycled.

Syslog Message

Device reservation release failed on %s device %s.

Parameters

deviceType (STRING): Type of device on which the reservation release failed.

deviceName (STRING): Name of the device.

tapemc.device.resvConfl

Severity

ERROR

Description

This message occurs when Data ONTAP® detects a SCSI reservation conflict while accessing this device. Data ONTAP routinely places reservations on devices to prevent multiple simultaneous accesses by more than one storage controller. A reservation conflict indicates that an existing reservation for another host system has been detected. Conflicts might occur in some error conditions where a reservation has been left on the device inadvertently, or if a device has been moved from one system to another without a power-cycle.

Corrective Action

If another system is using the device, then this error is normal and no corrective action should be taken to release the reservation. If the reporting system is the only user, then the reservation is likely an error.

Attempt manual release of the reservation using via the "storage release [tape|mc]" (from the nodeshell) command at the advanced privilege level. If the error persists, the device might need to be power-cycled.

Syslog Message

Reservation conflict on %s device %s.

Parameters

deviceType (STRING): Type of device on which the reservation release failed.

deviceName (STRING): Name of the device.

tapemc.iopending events

tapemc.iopending.exceeded

Severity

INFORMATIONAL

Description

This message occurs when Data ONTAP® detects that multiple I/Os were sent to a device that supports only one I/O at a time.

Corrective Action

(None).

Syslog Message

%s device %s has more than one I/O pending, but the device supports only one I/O at a time.

Parameters

deviceType (STRING): Type of device that multiple I/Os were sent to.

deviceName (STRING): Name of the device.

tapemc.passthru events

tapemc.passthru.negUnderrun

Severity

ERROR

Description

This message occurs when a data underrun (less data is transferred than requested) happens on a read operation to the device, and the number of data bytes reported as not transferred is unexpectedly larger than the number of bytes requested. Any data involved in the transfer might not be correct. Underruns themselves can be normal if the amount of data available to transfer can be smaller than the requested amount.

Corrective Action

Retry the operation. If the command was expected to fail, or if the failure is inconsequential, then you can ignore this condition. Otherwise, ensure that the cables and terminators (if any) are fully seated and tightened snugly. If the error persists, consider replacing the cable/terminator, host adapter or device.

Syslog Message

%s %s inbound data transfer ended with an underrun, but the reported residue %d (bytes not transferred) exceeds the request size %d.

Parameters

deviceType (STRING): Type of device.

deviceName (STRING): Path name of the device.

resideBytes (INT): Number of bytes reported as not transferred.

requestedBytes (INT): Number of bytes requested.

tapemc.sas events

tapemc.SAS.dedicatedPort

Severity

ERROR

Description

This message occurs when Data ONTAP® detects a SAS device that is connected to a port that is dedicated for SAS disk storage attachment, but is not a disk shelf or a bridge device.

Corrective Action

Connect the device using another available port.

Syslog Message

"%s" device type should not be connected to port %s, which is dedicated to disk storage attachment. Connect it using another available port.

Parameters

deviceType (STRING): Type of device connected to the port.
connectionPort (STRING): Connection port for the device.

tapemc.SAS.not.supported

Severity

ERROR

Description

This message occurs when a serial attached SCSI (SAS) tape or media changer is detected that is not allowed to be attached to this system. This is likely due to the SAS connections being reserved for disk shelf attachment. Tape drives and media changers cannot reliably share a SAS interface with disk drives.

Corrective Action

Remove the SAS tape or media changer device.

Syslog Message

Attaching a SAS tape or media changer device on adapter "%s" is not supported on this system.

Parameters

AdapterName (STRING): Adapter name to which the tape device is attached.

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