



scsitarget events

ONTAP EMS reference

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scsitarget events

scsitarget.fcp events

scsitarget.fcp.sfp.inserted

Severity

INFORMATIONAL

Description

This message occurs when a small form-factor pluggable (SFP) is inserted into the Fibre Channel (FC) target adapter.

Corrective Action

You can obtain detailed SFP information by using the 'fcp adapter show' command.

Syslog Message

An SFP was inserted into FC target adapter %s.

Parameters

adapter (STRING): Target adapter name.

scsitarget.fcp.sfp.invalid

Severity

ERROR

Description

This message occurs when an invalid Small Form-factor Pluggable (SFP) is inserted into the adapter. For example, a 10-GB SFP was inserted into an 8-GB FC adapter.

Corrective Action

Replace the SFP with a supported SFP.

Syslog Message

The SFP in FC adapter %s is not valid. (%s)

Parameters

adapter (STRING): Target adapter name.

reason (STRING): Reason for invalid SFP.

scsitarget.fcp.sfp.removed

Severity

INFORMATIONAL

Description

This message occurs when a Small Form-factor Pluggable (SFP) is removed from the Fibre Channel (FC) target adapter.

Corrective Action

(None).

Syslog Message

An SFP was removed from FC target adapter %s.

Parameters

adapter (STRING): Target adapter name.

scsitarget.fcp.sfp.warning

Severity

ERROR

Description

This message occurs when a small form-factor pluggable (SFP) that is not supported for FCoE links is inserted into an adapter that is configured for FCoE. For example, a 1-GB SFP is inserted into a converged network adapter (CNA) port. Note that the underlying Ethernet link might still be supported with the original SFP.

Corrective Action

Replace the SFP with an SFP that supports FCoE link speed.

Syslog Message

The SFP in FC adapter %s does not support 10 Gbit/sec speed. FCoE is supported only at 10 Gbit/sec and so the FCoE link will not be online.

Parameters

adapter (STRING): Target adapter name.

scsitarget.fct events

scsitarget.fct.fabNameRSCN

Severity

NOTICE

Description

This message occurs when a Fibre Channel (FC) Registered State Change Notification (RSCN) frame is received, specifically for a fabric name change event.

Corrective Action

(None).

Syslog Message

Fibre Channel target adapter "%s" is receiving a fabric name change notification.

Parameters

hba (STRING): Name of the HBA (host bus adapter) that is receiving the notification frame.

scsitarget.fct.fntimeout

Severity

ERROR

Description

This message occurs when the Fibre Channel (FC) target's fabric name retrieval mechanism times out on a given adapter port. This can cause failures for the "fcp adapter show" command, and it might also be associated with issues during procedures such as storage virtual machine (SVM) disaster recovery initialization.

Corrective Action

Confirm that the port is still connected to the switch port, and that the switch port is functional. On a MetroCluster system, it might be helpful to run the "fcp adapter show -adapter port -field fabric-name" command, prior to performing operations such as MetroCluster resync.

Syslog Message

Fabric name retrieval mechanism timed out for FC target port: %s with WWPN: %s. Status code: %d.

Parameters

adapterName (STRING): The name of the associated Fibre Channel (FC) host bus adapter port.

wwpn (STRING): World wide port name (WWPN) of the target adapter port that gave the error.

fabricStatus (INT): Status code returned by fabric retrieval call.

scsitarget.fct.linkError

Severity

ERROR

Description

This message occurs when a Fibre Channel (FC) Host Bus Adapter (HBA) encounters a physical layer issue. This might result in the frame being dropped. The following are examples of protocol errors that result in this message: - Bad start of frame (SOF) - Bad end of frame (EOF) - CRC error - Running disparity error - Link Reset primitive detection

Corrective Action

Recurring instances of this message indicate a physical layer issue. Perform the following recovery actions:
- Verify that the overall SAN fabric is healthy. - Verify that the SFP is healthy at both endpoints, replace if necessary. - Clean or replace the cables. Contact technical support with the code and status information for further analysis.

Syslog Message

FC target HBA: %s received unexpected error: %s, %s Status1: 0x%x, Status2: 0x%x, Status3: 0x%x.

Parameters

hba (STRING): Name of the target HBA that issued the error.

error1 (STRING): String associated with the error.

error2 (STRING): Additional string associated with the error.

status1 (INTHEX): Firmware status code 1.

status2 (INTHEX): Firmware status code 2.

status3 (INTHEX): Firmware status code 3.

scsitarget.fct.loginfailed

Severity

ERROR

Description

This message occurs when the Fibre Channel target driver encounters a FDISC or FLOGI failure. The failure can cause the FC target port or the LIF to be operationally down.

Corrective Action

Contact technical support for further analysis.

Syslog Message

FC port %s, NPIV port %d failed fabric login with status of %d and an extended status of x%x.

Parameters

hba (STRING): FC HBA where the login failure occurred.

npiiv_port (INT): NPIV (N Port ID Virtualization) LIF ID.

status (INT): Status value communicated by the firmware after login processing.

extended_status (INTHEX): Extended status value communicated by the firmware after login processing.

scsitarget.fct.npiivErr

Severity

ERROR

Description

This message occurs when the Fibre Channel (FC) fabric does not have NPIV (N Port ID Virtualization) enabled.

Corrective Action

Enable NPIV on the FC fabric for the FC LIF (logical interface) to come online. The fabric port related to the FC LIF should be disabled and then reenabled after NPIV is enabled. Use the "network interface" command to mark the operational status of the LIF as "up".

Syslog Message

NPIV is disabled on the fabric %s port %s. The target HBA resides at host %s at port %s.

Parameters

switch_name (STRING): FC fabric name.

switch_port_num (STRING): Fabric port number where NPIV is disabled.

target_host_name (STRING): Host name of the target node.

target_host_port_name (STRING): Port name of the target HBA.

scsitarget.fct.offlineComplete

Severity

NOTICE

Description

This message occurs when the FCT adapter offline process is complete.

Corrective Action

(None).

Syslog Message

Fibre Channel target adapter %s was brought offline.

Parameters

hba (STRING): HBA (host bus adapter) that was taken offline.

scsitarget.fct.offlineStart**Severity**

NOTICE

Description

This message occurs when the FCT adapter offline process starts.

Corrective Action

(None).

Syslog Message

Fibre Channel target adapter %s is being brought offline.

Parameters

hba (STRING): Name of the HBA(host bus adapter) that is being taken offline.

scsitarget.fct.onlining**Severity**

NOTICE

Description

This message occurs when the FCT adapter is online.

Corrective Action

(None).

Syslog Message

Fibre Channel target adapter %s is being brought online.

Parameters

hba (STRING): Name of the HBA (host bus adapter) that is being brought online.

scsitarget.fct.pingErr**Severity**

ERROR

Description

This message occurs when the ELS_ECHO reply does not match the ELS_ECHO request issued by the 'fcp ping' CLI command. This means that the 'fcp ping' command failed the signal quality tests specified in

the Methodologies for Signal Quality Specification (MSQS).

Corrective Action

Check the applicable section of MSQS (<http://www.t11.org/ftp/t11/pub/fc/msqs/10-314v3.pdf>): if a default payload was specified in the 'fcp ping' command and the platform is 8GFC or lower then the JSPAT (scrambled jitter pattern) test failed. Check the MSQS section 2.1 for a list of tests that JSPAT verifies. If the platform is 10GFC or higher and a default payload was specified, then an OMA (Optical Modulation Amplitude) or VMA (Voltage Modulation Amplitude) test failed. Check the MSQS section 2.2.1 for an explanation of these methods.

Syslog Message

FC ping failed because of a mismatch between request and response payloads. The request payload is %s and the response payload is %s at index %d. The link rate of the port is %d.

Parameters

req_payload (STRING): First mismatched character of ELS ECHO request payload.

res_payload (STRING): First mismatched character of ELS ECHO response payload.

index (INT): Index of the first mismatch between the ECHO request and response payloads.

link_rate (INT): Link rate of the Fibre Channel (FC) port.

scsitarget.fct.port.full

Severity

NOTICE

Description

This message occurs when the number of outstanding commands on a physical FC target port exceeds the supported limit on that port.

Corrective Action

To recover from this condition, evaluate the host fan-in on the port, and then take one of the following actions: - Reduce the number of hosts that are logging in to this port. - Reduce the number of LUs being accessed by the hosts logging in to this port. - Reduce the host command queue depth. Monitor the queue_full counter on the fcp_port CM object, and make sure that it is not increasing. Example: statistics show -object fcp_port -counter queue_full -instance port.portname -raw Monitor and verify that the threshold counter is also not increasing. Example: statistics show -object fcp_port -counter threshold_full -instance port.portname -raw

Syslog Message

FC target port %s has %d outstanding commands, which exceeds the maximum number of commands %d that can be supported by this port.

Parameters

portname (STRING): Port name on which the outstanding commands exceeded the supported limit.

active_commands (INT): Number of outstanding commands on the port.

max_commands (INT): Number of maximum commands supported on the port.

scsitarget.fct.port.offline

Severity

ERROR

Description

This message occurs when the Fibre Channel target port is taken offline due to too many errors received by the FCT driver. As a result, the port is not able to support FCP traffic.

Corrective Action

To determine the cause of the errors, run the "fcp adapter show" command and use the output to determine the next course of action.

Syslog Message

Fibre Channel Target port %s was taken operationally offline due to too many errors received by the FCT driver.

Parameters

adapterName (STRING): The name of the associated Fibre Channel host bus adapter.

scsitarget.fct.port.thresh

Severity

NOTICE

Description

This message occurs when the number of outstanding commands on a physical FC target port exceeds best practices as defined in the SAN configuration guide.

Corrective Action

To recover from this condition, evaluate the host fan-in on the port, and then take one of the following actions: - Reduce the number of hosts that are logging in to this port. - Reduce the number of LUs being accessed by the hosts logging in to this port. - Reduce the host command queue depth. Monitor the threshold_full counter on the fcp_port CM object, and make sure that it is not increasing. Example: statistics show -object fcp_port -counter threshold_full -instance port.portname -raw

Syslog Message

FC target port %s has %d outstanding commands, which exceeds the threshold %d for this port.

Parameters

portname (STRING): Port name on which the outstanding commands exceeded the threshold.

active_commands (INT): Number of outstanding commands on the port.

supported_threshold (INT): Threshold of the number of commands supported on the port.

scsitarget.fct.portLogin

Severity

NOTICE

Description

This message occurs when an initiator logs into a target port.

Corrective Action

(None).

Syslog Message

Login at target FC port: '%s' by initiator port: '%s' address 0x%x. The target virtual port is: '%s'.

Parameters

hba (STRING): Name of target Fiber Channel host bus adapter (HBA) where the port logged in.

portname (STRING): Port name of the initiator that logged in.

addr (INTHEX): Initiator's Fibre Channel 'Port Identifier' or 'Port Address' as defined in FC-PH. This identifier is mapped to the WWPN and reported in the output of the filer CLI "fcp initiator show" command.

lifname (STRING): The name of the virtual port of the FC host bus adapter (HBA) where the initiator logged in.

scsitarget.fct.postFailed

Severity

EMERGENCY

Description

This message occurs when the host bus adapter (HBA) failed its power-on self test (POST).

Corrective Action

Configure the HBA down then up again by using the "fcp config" command. If the HBA consistently fails its POST, replace it. Otherwise, monitor the HBA for intermittent errors and replace it if the errors occur too frequently. As part of the failing POST, an SRAM dump file is saved in the /etc/log directory. Contact NetApp technical support with this file for further analysis.

Syslog Message

FC target HBA %s could not initialize because of a POST failure.

Parameters

hba (STRING): HBA that failed its POST.

scsitarget.fct.reset

Severity

NOTICE

Description

This message occurs when the FCT adapter is being reset.

Corrective Action

(None).

Syslog Message

Resetting Fibre Channel target adapter %s.

Parameters

hba (STRING): Name of the target HBA (host bus adapter) being reset.

scsitarget.fct.sfpRxPowerLow

Severity

ALERT

Description

This message occurs when the power received (RX) by a small form-factor pluggable transceiver (SFP) is at a level below the defined threshold, which might indicate a failing or faulty part.

Corrective Action

Monitor the operating value. If it continues to decrease, then replace the SFP and/or the cables.

Syslog Message

The SFP in FC target adapter %s reports that it is receiving (RX) at a low level of power. Operating value %d (uWatts), Threshold value %d (uWatts).

Parameters

adapter (STRING): Target adapter name.

operating_value (INT): The current operating value. The value is in microwatts (uWatts).

threshold_value (INT): The defined threshold value. The value is in microwatts (uWatts).

scsitarget.fct.sfpTxPowerLow

Severity

ALERT

Description

This message occurs when a small form-factor pluggable transceiver (SFP) is transmitting (TX) power at a level below the defined threshold, which might indicate a failing or faulty part.

Corrective Action

Monitor the operating value. If it continues to decrease then replace the SFP and/or the cables.

Syslog Message

The SFP in FC target adapter %s reports that it is transmitting (TX) at a low level of power. Operating value %d (uWatts), Threshold value %d (uWatts).

Parameters

adapter (STRING): Target adapter name.

operating_value (INT): The current operating value. The value is in microwatts (uWatts).

threshold_value (INT): The defined threshold value. The value is in microwatts (uWatts).

scsitarget.hwpfct events

scsitarget.hwpfct.dump.saved

Severity

NOTICE

Description

This message occurs when an unexpected event or illegal condition is detected by the FC target driver and the contents of the FC target's memory is saved. Dump files are stored on the system's root volume in the /etc/log directory, with the following file name format: *fct*[adapter][date]_[time].[dmp |queue]

Corrective Action

Send the dump file to technical support for analysis.

Syslog Message

A dump for adapter %s was stored in %s.

Parameters

adapter (STRING): Target adapter name.

filename (STRING): Name of the file containing the dump.

scsitarget.hwpfct.els.rjt

Severity

ERROR

Description

This message occurs when an Extended Link Services (ELS) request is rejected by the fabric. Depending on the ELS request that is rejected, the initiator might experience issues discovering the target devices.

Corrective Action

Ensure that the fabric is zoned and configured correctly. Consult NetApp technical support providing the reason code, reason string, and explanation for further analysis.

Syslog Message

The Fibre Channel ELS request %s sent from adapter %s NPIV port %d to port ID 0x%x failed with reason code 0x%x (%s) and explanation code 0x%x.

Parameters

elsrequest (STRING): ELS request that was rejected by the destination port ID.

adapterName (STRING): Name of the associated Fibre Channel host bus adapter (HBA).

npiV_port (INT): NPIV (N Port ID Virtualization) LIF ID of the source of the ELS request.

portID (INTHEX): Destination port ID of the ELS request.

reasonCode (INTHEX): Reason code provided by the destination port ID for rejection of the ELS request.

reason (STRING): Reason text provided by the destination port ID for rejection of the ELS request.

explanationCode (INTHEX): Explanation code provided by the destination port ID qualifying the stated reason.

scsitarget.hwpfct.errorReset

Severity

NOTICE

Description

This message occurs when the FCT driver encounters an error which was resolved by resetting the adapter.

Corrective Action

(None).

Syslog Message

An error was encountered in the FC target driver on Fibre Channel target adapter %s. The adapter will be automatically reset to clear the %s condition.

Parameters

hba (STRING): Name of the target HBA (host bus adapter) to reset.

details (STRING): Details of the error that caused the reset.

scsitarget.hwpfct.extraHBA

Severity

ERROR

Description

This message occurs when the system detects more than the maximum number of supported Fibre Channel target host bus adapters (HBAs). The extra HBAs are not initialized.

Corrective Action

Remove the extra Fibre Channel target HBAs from the system.

Syslog Message

HBA %s will not be initialized. More than %d Fibre Channel target HBAs were found in the system.

Parameters

hba (STRING): Name of the Fibre Channel target HBA (host bus adapter) that were not initialized.

max (INT): Maximum number of supported Fibre Channel target HBAs.

scsitarget.hwpfct.fabRegFail

Severity

ALERT

Description

This message occurs when Fibre Channel target port fails to register with the fabric. As a result the intended initiators can not see the target devices.

Corrective Action

If fabric did not send a rejection the next step is to check cables and connection with the switch. Also ensure that the fabric is zoned correctly. Consult NetApp technical support providing the details and if available, the reason code, string and explanation for further analysis.

Syslog Message

Fibre Channel target adapter %s unable to register fc4_type with fabric and export target devices.

Parameters

hba (STRING): The name of the target HBA (host bus adapter) that failed.

portID (INT): Port ID of the target port trying to register with the fabric.

command (INT): Command that failed during fabric registration.

reasonCode (INTHEX): Reason code (as defined in FC-FS) of the rejection response from the fabric.

reasonString (STRING): Reason string explaining why the request from target was rejected.

explanation (INTHEX): Explanation code (as defined in FC-FS). This provides further detail on the rejection.

scsitarget.hwpfct.globalLogout

Severity

NOTICE

Description

This message occurs when the FC HBA (host bus adapter) detects a link down condition and all the initiators have logged out.

Corrective Action

Confirm that the filer is still connected to the switch and that the switch is functional.

Syslog Message

FC Target %s: Link down, all initiators logged out.

Parameters

hba (STRING): FC target adapter name.

scsitarget.hwpfct.initFailed

Severity

ALERT

Description

This message occurs when the FCT driver fails to initialize the HBA (host bus adapter).

Corrective Action

Replace the adapter.

Syslog Message

Initialization of adapter failed on Fibre Channel target adapter %s.

Parameters

hba (STRING): (None).

scsitarget.hwpfct.linkUp

Severity

NOTICE

Description

This message occurs when FCT driver receives a link up notification.

Corrective Action

(None).

Syslog Message

Link up on Fibre Channel target adapter %s.

Parameters

hba (STRING): Name of the target HBA which received link-up.

scsitarget.hwpfct.thirdPartyLogout

Severity

NOTICE

Description

This message occurs when the FCT driver determines that an initiator has issued a third-party logout. Because the initiator is logged out, all SCSI commands from this port are aborted. If the global bit was set, all initiators are logged out and all commands are terminated.

Corrective Action

Check to ensure that the initiator is still connected to the fabric.

Syslog Message

FC target %s: The initiator at port ID: 0x%x (WWPN %s) issued a third-party logout with %s.

Parameters

hba (STRING): FC target adapter name.

port_id (INT): Initiator's Fibre Channel "Port Identifier" or "Port Address", as defined in FC-PH. This identifier is mapped to the WWPN and reported in the output of the system CLI command "fcp initiator show" command.

node (STRING): WWPN of the initiator that changed and had commands reset.

globalBit (STRING): Message to indicate whether the global bit in the third-party logout frame was set.

scsitarget.hwpfct.tooManyInitiatorsConnected

Severity

ERROR

Description

This message occurs when the system detects too many initiators on the Fibre Channel fabric.

Corrective Action

Remove initiators from the fabric until the maximum is no longer being hit. You can remove initiators via zoning or physical disconnection.

Syslog Message

Fibre Channel target adapter %s cannot have more than %d initiators connected. Resetting adapter.

Parameters

hba (STRING): System name for the target HBA(host bus adapter) that has too many initiators attempting to connect to it.

max_initiators (INT): Max initiators that can connect to the HBA.

scsitarget.ispfct events

scsitarget.ispfct.AENErr

Severity

ALERT

Description

This message occurs when Fibre Channel host bus adapter(HBA) returns an event notification to the driver but the driver did not recognize the event type.

Corrective Action

Contact technical support with the code and status information for further analysis.

Syslog Message

Fibre Channel target HBA %s received unexpected AEN code 0x%x, Status1 0x%x, Status2 0x%x, Status3 0x%x and Status4 0x%x.

Parameters

hba (STRING): Name of the target HBA that gave the error.

code (INTHEX): Firmware error code.

status1 (INTHEX): Firmware status code 1.

status2 (INTHEX): Firmware status code 2.

status3 (INTHEX): Firmware status code 3.

status4 (INTHEX): Firmware status code 4.

scsitarget.ispfct.cfmodeChanged

Severity

NOTICE

Description

This event generates a notification that the cfmode was changed. Changing the cfmode should only be done in coordination with FCP connected hosts as this can cause devices to change, appear, or disappear on the hosts.

Corrective Action

(None).

Syslog Message

FCP cfmode changed from %s to %s.

Parameters

old_mode (STRING): The cfmode setting before the change.

new_mode (STRING): The cfmode setting after the change.

scsitarget.ispfct.configChanged

Severity

NOTICE

Description

This message occurs when the ISPFCT driver determines that a port configuration has changed.

Corrective Action

Check to ensure the initiator is still connected to the fabric.

Syslog Message

FCP target %s reported a port configuration change. %s.

Parameters

hba (STRING): FCP target adapter name.

message (STRING): Description of the configuration change.

scsitarget.ispfct/fwErr

Severity

ERROR

Description

This message occurs when firmware on the Fibre Channel (FC) target host bus adapter (HBA) returns a system error. The system is resetting the HBA in an attempt to recover from the error, but further analysis is necessary to determine the cause of the problem and whether further corrective action is needed.

Corrective Action

Contact NetApp technical support with the subsequent SRAM dump so that the cause of the problem and applicable corrective action can be determined.

Syslog Message

Firmware on FC target HBA %s returned a system error code 0x%x, status1 0x%x, status2 0x%x, status3 0x%x, and status4 0x%x. Resetting HBA to recover from the error, but SRAM dump analysis is needed.

Parameters

hba (STRING): Name of the target HBA that failed.

code (INTHEX): Firmware error code.

status1 (INTHEX): Firmware status code 1.

status2 (INTHEX): Firmware status code 2.

status3 (INTHEX): Firmware status code 3.

status4 (INTHEX): Firmware status code 4.

scsitarget.ispfct/fwfileCksumFailed

Severity

ALERT

Description

This message occurs when the Fibre Channel driver fails to load the firmware file when initializing the adapter. The adapter cannot serve data until the firmware is loaded successfully.

Corrective Action

Reboot the node to reinitialize the adapter. If the adapter still fails to initialize, replace the adapter. For further assistance, contact NetApp technical support.

Syslog Message

Fibre Channel target adapter %s firmware file %s failed checksum after reading %d bytes.

Parameters

hba (STRING): Adapter that failed to load the firmware file.

filename (STRING): Name of file that could not be loaded.

bytesread (INT): Number of bytes that have been read in from the firmware file so far.

scsitarget.ispfct.invalidNVRAMNodeName

Severity

ALERT

Description

This message occurs when ONTAP® software reads an invalid World Wide Node Name (WWNN) from a Fibre Channel target adapter's NVRAM. A default WWNN will be temporarily assigned to the adapter. This might cause fabric zoning not to work correctly and might cause problems with anything that depends on consistent WWNNs and WWPNs.

Corrective Action

Reboot the node. If the problem still exists, replace the adapter. Contact NetApp technical support for assistance.

Syslog Message

Invalid WWNN of Fibre Channel target adapter %s. Assigning temporary default: %s.

Parameters

hba (STRING): Name of the target HBA that has invalid NVRAM

default_name (STRING): Node name being applied to the HBA.

scsitarget.ispfct.linkBreak

Severity

ERROR

Description

ispfct link break notification

Corrective Action

If link break is unexpected check cables, switches and the other host (if direct connected). Please check the Firmware status code 1, 2 and 4 for reason.

Syslog Message

Link break detected on Fibre Channel target adapter %s. Firmware status code status1 0x%x, status2 0x%x, and status4 0x%x.

Parameters

hba (STRING): Name of the target HBA which has lost link

status1 (INTHEX): Firmware status code 1.

status2 (INTHEX): Firmware status code 2.

status4 (INTHEX): Firmware status code 4.

scsitarget.slifct events

scsitarget.slifct.asyncError

Deprecated

Deprecated as of ONTAP® version 9.2.0 in an effort reduce event messages.

Severity

ERROR

Description

This message occurs when the Fibre Channel target device driver encounters an unrecognized asynchronous event notification from the firmware, possibly as a result of a firmware update. The unrecognized event is ignored by the system.

Corrective Action

No administrative action is required. If the messages persist, contact NetApp technical support with the event details for assistance.

Syslog Message

FC port %s encountered an unexpected event of x%x, type of x%x, with additional status of x%x, x%x, x%x.

Parameters

hba (STRING): Name of the port where the event occurred.

async_event_code (INTHEX): Asynchronous event code that was unrecognized by the target driver.

async_event_type (INTHEX): Asynchronous event type that was unrecognized by the target driver.

async_event_word1 (INTHEX): Asynchronous event word_1 that was unrecognized by the target driver.

async_event_word2 (INTHEX): Asynchronous event word_2 that was unrecognized by the target driver.

async_event_word3 (INTHEX): Asynchronous event word_3 that was unrecognized by the target driver.

scsitarget.slifct.fwAutoBoot

Severity

NOTICE

Description

This message occurs when the SLIFCT driver successfully updates the firmware version of the host bus adapter (HBA). The controller will be rebooted automatically to complete the process.

Corrective Action

None; the controller will be rebooted automatically to enable the new HBA firmware.

Syslog Message

FC target HBA %s firmware version updated from %s to %s. The controller will be rebooted automatically to enable the new HBA firmware.

Parameters

hba (STRING): HBA where the firmware version update occurred.

currentversion (STRING): Firmware version the HBA was running.

bundleversion (STRING): Firmware version bundled with Data ONTAP®.

scsitarget.slifct/fwNeedBoot

Severity

ERROR

Description

This message occurs when the SLIFCT driver successfully updates the firmware version of the host bus adapter (HBA), and requires a reboot of the controller to complete the process.

Corrective Action

Reboot the controller to enable the new HBA firmware.

Syslog Message

FC target HBA %s firmware version updated from %s to %s. Reboot the controller to enable the new HBA firmware.

Parameters

hba (STRING): HBA where the firmware version update occurred.
currentversion (STRING): Firmware version the HBA was running.
bundleversion (STRING): Firmware version bundled with Data ONTAP®.

scsitarget.slifct/fwUpdDone

Severity

NOTICE

Description

This message occurs when the SLIFCT driver successfully updates the firmware version of the host bus adapter (HBA).

Corrective Action

(None).

Syslog Message

FC target HBA %s firmware version updated from %s to %s.

Parameters

hba (STRING): HBA where the firmware version update occurred.
currentversion (STRING): Firmware version the HBA was running.
bundleversion (STRING): Firmware version bundled with Data ONTAP®.

scsitarget.slifct/fwUpdErr

Severity

ERROR

Description

This message occurs when the SLIFCT driver encounters an error while updating the firmware version of the host bus adapter (HBA).

Corrective Action

The corrective action for this error must be determined from system logs. For assistance, contact NetApp technical support with the current version, bundle version, status, and additional status values for further analysis.

Syslog Message

FC target HBA %s failed to update the firmware version from %s to %s with the status of x%x and an additional status x%x.

Parameters

hba (STRING): HBA where the firmware version update failure occurred.

currentversion (STRING): Firmware version the HBA is running.

bundleversion (STRING): Firmware version bundled with Data ONTAP®.

status (INT): Status code of the firmware update process.

additional_status (INTHEX): Additional status value communicated by the firmware after login processing.

scsitarget.slifct.linkBreak

Severity

ERROR

Description

This message occurs when the SLIFCT driver receives a link break notification.

Corrective Action

If the link break was unexpected, check the cables and switch connection.

Syslog Message

Link break detected on Fibre Channel target HBA %s with event status %d , topology type %d, status1 0x%x, status2 0x%x.

Parameters

hba (STRING): Name of the target HBA (Host bus adapter) that lost link.

status (INTHEX): Reported event's status.

topology (INTHEX): Code for identifying the topology.

status1 (INTHEX): Value of the SLIPORT_ERROR1 register.

status2 (INTHEX): Value of the SLIPORT_ERROR2 register.

scsitarget.slifct.mboxError

Deprecated

Deprecated as of ONTAP® version 9.2.0 in an effort to reduce event messages.

Severity

ERROR

Description

This message occurs when the SLIFCT host bus adapter (HBA) encounters an error while processing a mailbox command.

Corrective Action

Contact NetApp technical support with the command, subsystem, subopcode, status, and extended status code for further analysis.

Syslog Message

FC port %s has a mailbox processing failure for command x%x, subsystem x%x, subopcode x%x, with the status of %d and the extended status of x%x.

Parameters

hba (STRING): HBA where the mailbox command failure occurred.

command (INTHEX): Mailbox command code.

subsystem (INTHEX): Mailbox subsystem code.

subopcode (INTHEX): Mailbox command subsystem opcode.

status (INT): Status communicated by the firmware for the mailbox command.

extended_status (INTHEX): Extended status communicated by the firmware for the mailbox command.

scsitarget.slifct.rebootRequired

Severity

EMERGENCY

Description

This message occurs when a Fibre Channel adapter experiences an unrecoverable error. The adapter cannot serve data without a node reboot.

Corrective Action

Reboot the node to reinitialize the adapter. If the adapter fails to initialize or continues to experience errors, replace the adapter. For further assistance, contact NetApp technical support.

Syslog Message

Unrecoverable error detected on Fibre Channel target HBA %s with error codes %d and %d.

Parameters

hba (STRING): Name of the target HBA that encountered the error.

ERROR_1 (INT): Value of the SLIPORT_ERROR1 register.

ERROR_2 (INT): Value of the SLIPORT_ERROR2 register.

scsitarget.slifct.retryExc

Deprecated

Deprecated as of ONTAP® version 9.2.0 in an effort to reduce event messages.

Severity

ERROR

Description

This message occurs when the SLI Fibre Channel Target driver encounters multiple Work Queue Entry (WQE) failures of a certain type that exhaust the retry limit.

Corrective Action

Contact NetApp technical support with the type, command code, subtype, status, and extended status values for further analysis.

Syslog Message

FC port %s, NPIV port %d has reached the retry limit %d of WQE processing failure for type %s, command %s, subtype x%x with status of %d and an extended status of x%x.

Parameters

hba (STRING): FC HBA where the WQE failure occurred.

npiiv_port (INT): NPIV LIF ID.

retry_limit (INT): Number of times that this WQE can be retried.

type (STRING): Type of WQE.

command (STRING): Name of the command in the WQE.

subtype (INTHEX): Subtype of the command.

status (INT): Status value communicated by the firmware after WQE processing.

extended_status (INTHEX): Extended status value communicated by the firmware after WQE processing.

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