

## connectx events

ONTAP 9.15.1 EMS reference

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## connectx events

## connectx.cmdinterface events

## connectx.cmdInterface.hung

#### Severity

NOTICE

#### Description

This message occurs when the command interface of ConnectX HA interconnect hardware is temporarily hung. If the command interface fails to recover, the HA interconnect goes down.

#### **Corrective Action**

Typically, the command interface recovers after a few seconds. If not, an AutoSupport message is generated when the HA interconnect goes down.

### Syslog Message

HA interconnect ConnectX hardware command interface is temporarily hung.

#### Parameters

(None).

## connectx.fatalerror events

## connectx.fatalError

#### Severity

ERROR

#### Description

This message occurs when a fatal error is polled from the ConnectX(tm) InfiniBand® adapter. Controller failover will be disabled.

#### **Corrective Action**

Contact NetApp technical support. ConnectX registers have been dumped to the /etc/mlxlog/ConnectX\_regdump file.

### Syslog Message

HA interconnect HBA failure, ConnectX fatal error was polled.

#### Parameters

(None).

## connectx.ibcabledetected events

## connectx.lbCableDetected

#### Severity

INFORMATIONAL

### Description

This message occurs when an InfiniBand cable is detected on the InfiniBand port.

#### **Corrective Action**

(None).

### Syslog Message

Detected %s of length %dM on InfiniBand port %s.

### Parameters

cable\_type (STRING): InfiniBand cable type. cable\_length (INT): Length of the InfiniBand cable in meters. port\_str (STRING): InfiniBand port in which the cable is plugged.

## connectx.iblinkretrainnotreqd events

## connectx.IBLinkRetrainNotReqd

#### Severity

INFORMATIONAL

#### Description

This message occurs when the software detects that the previous InfiniBand link training was successful.

#### **Corrective Action**

(None).

### Syslog Message

InfiniBand Link training was successful for ConnectX in slot %d, port %d.

### Parameters

pcie\_slot (INT): PCIe slot in which ConnectX is present.
port\_num (INT): Port number where the success was detected.

## connectx.iblinkretrainreqd events

## connectx.IBLinkRetrainReqd

### Severity

NOTICE

#### Description

This message occurs when the software detects that the previous InfiniBand link training was unsuccessful.

#### **Corrective Action**

(None).

#### Syslog Message

InfiniBand Link training failed for ConnectX in slot %d, port %d. Link Retraining Request status %d.

#### Parameters

pcie\_slot (INT): PCIe slot in which ConnectX is present.
port\_num (INT): Port number where the issue was detected.
status (INT): Status of the link retraining request.

## connectx.ibqsfpdumpctrl events

## connectx.lbQsfpDumpCtrl

#### Severity

ERROR

#### Description

This message occurs when InfiniBand retimer programming fails due to a quad small form-factor pluggable (QSFP) transceiver register dump failure, causing the control registers of QSFP to be dumped.

#### **Corrective Action**

Automatic retry of InfiniBand retimer programming will be done and an AutoSupport(tm) message will be generated if two retries fail.

#### Syslog Message

InfiniBand retimer programming failed on port %s due to %s. Dumping registers: control 0x%0x, data 0x%0x, timeout 0x%0x, clock 0x%0x.

#### Parameters

port\_str (STRING): InfiniBand port in which the cable is plugged.
 reason (STRING): Reason for the failure of InfiniBand retimer programming.
 ctrlreg (INTHEX): Contents of the QSFP control register in hexadecimal notation.
 datareg (INTHEX): Contents of the QSFP data register in hexadecimal notation.
 timeoutreg (INTHEX): Contents of the QSFP timeout register in hexadecimal notation.
 clockreg (INTHEX): Contents of the QSFP clock register in hexadecimal notation.

## connectx.ibqsfpdumpdata events

## connectx.lbQsfpDumpData

#### Severity

ERROR

#### Description

This message occurs when InfiniBand retimer programming fails due to a quad small form-factor pluggable (QSFP) transceiver parse error, and 128 bytes of QSFP data are dumped.

#### **Corrective Action**

Automatic retry of InfiniBand retimer programming will be done and an AutoSupport(tm) message will be generated if two retries fail.

#### Syslog Message

InfiniBand retimer programming failed on port %s due to %s. Dumping registers: %s.

#### Parameters

port\_str (STRING): InfiniBand port in which the cable is plugged.reason (STRING): Reason for the failure of InfiniBand retimer programming.qsfp\_data (STRING): Contents of QSFP data registers from offset 128 to 256 in hexadecimal notation.

## connectx.ibretimerfailcount events

## connectx.lbRetimerFailCount

#### Severity

ERROR

#### Description

This message occurs when InfiniBand retimer programming fails due to one of the following reasons: InfiniBand device not found, GPIO read failure or retimer chip failure.

#### **Corrective Action**

Automatic retry of InfiniBand retimer programming will be done and an AutoSupport(tm) message will be generated if two retries fail.

#### Syslog Message

InfiniBand retimer programming failed on port %s due to %s.

#### **Parameters**

**port\_str** (STRING): InfiniBand port in which the cable is plugged. **reason** (STRING): Reason for the failure of InfiniBand retimer programming.

## connectx.ibretimerprogrmpass events

### connectx.lbRetimerProgrmPass

#### Severity

INFORMATIONAL

#### Description

This message occurs when InfiniBand retimer programming is succesfully completed after the system detects that a cable is plugged in.

#### **Corrective Action**

(None).

#### Syslog Message

InfiniBand retimer programming was successful on port %s.

#### **Parameters**

port\_str (STRING): InfiniBand port in which the cable is plugged.

## connectx.ibretimerskipprogrm events

## connectx.lbRetimerSkipProgrm

#### Severity

INFORMATIONAL

## Description

This message occurs when InfiniBand retimer programming is skipped after the system detects that a cable is plugged in, because there was no change in the cable's type and length.

## **Corrective Action**

(None).

## Syslog Message

InfiniBand retimer programming was skipped on port %s for %s cable.

## Parameters

**port\_str** (STRING): InfiniBand port in which the cable is plugged. **cable\_type** (STRING): InfiniBand cable type.

## connectx.ibunsupportcable events

## connectx.lbUnsupportCable

### Severity

ERROR

### Description

This message occurs when an unsupported InfiniBand cable is detected on the InfiniBand port.

### **Corrective Action**

Unplug the unsupported InfiniBand cable and plug in a supported cable. Search the support site "Hardware Universe" for information about supported InfiniBand cables.

### Syslog Message

Detected unsupported %s on InfiniBand port %s.

### Parameters

**cable\_type** (STRING): InfiniBand cable type. **port\_str** (STRING): InfiniBand port in which the cable is plugged.

## connectx.portdisabled events

## connectx.portDisabled

## Severity

ALERT

#### Description

This message occurs when the HA interconnect port experiences persistent node advertisement send timeouts. Port reinitialization does not correct the problem. The port is disabled.

#### **Corrective Action**

Reboot the controller. Contact NetApp technical support if the problem persists.

#### Syslog Message

Node advertisement send timed out for the ConnectX device in slot %d, port %d. The port is disabled. Device registers have been dumped to the /etc/mlxlog/ConnectX\_regdump file.

#### **Parameters**

**phys\_slot** (INT): Physical slot in which ConnectX is present. **port\_num** (INT): Port number that is disabled.

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