



## **connectx events**

### ONTAP 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.IbCableDetected

**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.IbQsfpDumpCtrl

### 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.IbQsfpDumpData

### 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.IbRetimerFailCount

### 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.IbRetimerProgrmPass

### Severity

INFORMATIONAL

### Description

This message occurs when InfiniBand retimer programming is successfully 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.IbRetimerSkipProgrm

#### 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.IbUnsupportCable

#### 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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