ctrl events

ONTAP EMS reference

NetApp
November 18, 2025

This PDF was generated from https://docs.netapp.com/us-en/ontap-ems/ctrl-link-events.html on November 18, 2025. Always check docs.netapp.com for the latest.

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ctrl events

ctrl.link events

ctrl.link.degraded

Severity

ERROR

Description

This message occurs when the software detects either symbol errors or out-of-sequence errors on HA interconnect links.

Corrective Action

If possible, replace the degraded interconnect cables and reenable automatic switchover by using the "options -option-name rdma.link_monitor -option-value on" command. If the problem persists after replacing both interconnect cables, replace the interconnect hardware on both nodes.

Syslog Message

Link errors detected on card in slot %d. Number of symbol errors (Port1:Port2): %d:%d; Number of OOS errors(RQ:SQ): %d:%d.

Parameters

slot (INT): Slot number of the HA Interconnect device.
sym_err1 (INT): Symbol errors on the first port.
sym_err2 (INT): Symbol errors on the second port.
rq_oos (INT): Out-of-sequence errors on the receive queue.
sq_oos (INT): Out-of-sequence errors on the send queue.

ctrl.link.switchover

Severity

INFORMATIONAL

Description

This message occurs when the software initiates a switchover of the active interconnect link, which has been declared degraded.

Corrective Action

If possible, replace the degraded interconnect cable and reenable the automatic switchover by using the "options -option-name rdma.link_monitor -option-value on" command. If the problem persists after replacing both the interconnect cables, replace the interconnect hardware on both nodes.

Syslog Message

Link switchover initiated to switch active interconnect link %s.

Parameters

degraded_port_name (STRING): Port name of the degraded link that is being switched from.

ctrl.rdma events

ctrl.rdma.badSystemId

Severity

NOTICE

Description

This message occurs when an invalid system ID is found.

Corrective Action

(None).

Syslog Message

Invalid system ID %d. High-availability interconnect might not work properly.

Parameters

name (INT): Invalid system ID value.

ctrl.rdma.heartBeat

Severity

INFORMATIONAL

Description

This message logs heartbeat messages.

Corrective Action

(None).

Syslog Message

HA interconnect: %s.

Parameters

hb (STRING): Heartbeat string.

ctrl.rdma.partnerOK

Severity

INFORMATIONAL

Description

This message occurs when the partner resumes from pause state.

Corrective Action

(None).

Syslog Message

Partner node (system ID: %lld IP address: %s) has resumed from pause state.

Parameters

sysid (LONGINT): Partner system ID.
ipaddr (STRING): Partner IP address.

ctrl.rdma.partnerPause

Severity

INFORMATIONAL

Description

This message occurs when the partner enters pause state.

Corrective Action

(None).

Syslog Message

Partner node (system ID: %lld IP address: %s) has entered pause state.

Parameters

sysid (LONGINT): Partner system ID.
ipaddr (STRING): Partner IP address.

ctrl.rdma.portStateChange

Severity

INFORMATIONAL

Description

This message occurs when the state of the HA interconnect link changed frequently in the last hour.

Corrective Action

Verify that both controllers in the HA pair are operational. For externally connected links, make sure that the interconnect cables are connected properly and that small form-factor pluggable (SFP) modules, if applicable, are seated properly on both controllers. For internally connected links, disable and reenable the links one at a time by using the (privilege: advanced) "system ha interconnect link off" and "system ha interconnect link on" commands. When one link is down on platforms with two available links, HA link redundancy is lost. However, HA services are still working and enabled on the secondary link.

Syslog Message

HA interconnect: Link to %s changed state %d times in the last hour.

Parameters

ip (STRING): IP address of the peer.
num_times (INT): Number of times the state changed.

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