

# **Storage Automated Diagnostic Environment Event Grid**

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Event Count: 189

**Event: a3500fc.AuditEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Auditing a new a3500fc with ID:a3500fc.da106\_004

**Info:**

Audits occur every week.

**Event: a3500fc.CommunicationEstablishedEvent**

**Component: ib**

**Severity: Info**

**Actionable: No**

**Description:**

Communication regained with A3500fc called DPL4

**Event: a3500fc.CommunicationLostEvent**

Component: ib

**Severity: Down**  
**Actionable: Yes****Description:**

Lost communication with A3500FC called DPL4

**Info:**

This event is always done inband using rm6 commands (lad, raidutil, rdacutil,drivutil)

**Action:**

1. Check SAN Topology to identify failing segment of data path
2. Verify cables, GBICs and HBAs along data path.
- \* If problem FRU is on A3500 continue on to step 3 for A3500 specific procedures.
3. Run '/usr/sbin/osa/healthck -a' from command line to see status
4. Run Healthcheck and Recovery Guru from Raid Manager GUI. Follow service procedures given

**Event: a3500fc.DiagnosticTest-**

**Component: a3500fctest**

**Severity: Error**

**Actionable: No**

**Description:**

a3500fctest (diag240) on a3500fc.da106\_004 failed

**Event: a3500fc.DiscoveryEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Discovered a new a3500fc with ID:a3500fc.da106\_004

**Info:**

Discovery events occur the very first time the agent probes a storage device.

**Event: a3500fc.InsertComponent**

Component: controller

**Severity: Info**

**Actionable: No**

**Description:**

Component 'controller.b:XX' was added to da106\_004 'a3500fc.da106\_004

**Info:**

A new Controller, as identified by it's serial#, has been installed on the device.

**Event: a3500fc.InsertComponent**

Component: disk

**Severity: Info**

**Actionable: No**

**Description:**

Component 'disk.1:SEAGATE.LT02926900' was added to da106\_004 'a3500fc.da106\_004'

**Info:**

A new Disk, as identified by it's serial#, has been installed on the A3500fc.



**Event: a3500fc.LocationChangeEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Location of a3500fc called DPL4 was changed

**Event: a3500fc.RemoveComponent**

Component: controller

**Severity: Error****Actionable: Yes****Description:**

Component 'controller.b:XX' was removed from da106\_004 'a3500fc.da106\_004

**Info:**

The A3500 is reporting a controller has been removed. This could be due to failure or service replacement actions

**Action:**

1. Replace controller using Recovery Guru from Raid Manager GUI

**Event: a3500fc.RemoveComponent**

Component: disk

**Severity: Error**  
**Actionable: Yes****Description:**

Component 'disk.1:SEAGATE.LT02926900' was removed from da106\_004 'a3500fc.da106\_004'

**Info:**

The A3500 is reporting a disk has been removed. This could be due to failure or service replacement action

**Action:**

1. Replace disk

**Event: a3500fc.StateChangeEvent+**

**Component: disk**

**Severity: Info**

**Actionable: No**

**Description:**

disk.0 (SEAGATE.LT04183900) in A3500FC 'da106\_004' (a3500fc.da106\_004) is now Available (status-state changed from 'Degraded' to 'Optimal')

**Event: a3500fc.StateChangeEvent-**

Component: controller

**Severity: Error****Actionable: Yes****Description:**

controller.a (Symbios.1T93200466) in A3500FC 'da106\_004' (a3500fc.da106\_004) is now Not-Available (status-state changed from 'Active' to 'Error')

**Info:**

This state of a controller in the a3500fc enclosure changed (rm6)

**Action:**

1. Check the Raid Manager GUI message log for any errors.  
\* /usr/lib/osa/rmlog.log can be sent to Sun Support for decoding.
2. Run '/usr/sbin/osa/lad' to obtain list of controllers
3. Run '/usr/sbin/osa/healthck -a' from command line to see status
4. Run Healthcheck and Recovery Guru from Raid Manager GUI. Follow service procedures given
5. Replace controller if necessary

**Event: a3500fc.StateChangeEvent-**

**Component: disk**

**Severity: Error**

**Actionable: Yes**

**Description:**

disk.0 (SEAGATE.LT04183900) in A3500FC 'da106\_004' (a3500fc.da106\_004) is now Not-Available (status-state changed from 'Optimal' to 'Degraded')

**Info:**

A disk in the A3500 enclosure is reporting a failing condition.

**Action:**

1. Check HealthCheck and Recovery Guru in Raid Manager GUI. Follow service procedures given

**Event: a5k.AlarmEvent-**  
**Component: backplane**

**Severity: Warning**  
**Actionable: Yes**

**Description:**

backplane.rear status changed from '[undefined]' to OK on DPL3 (wwn=508002000007a608)

**Info:**

The command luxadm has reported a non-optimal condition for a A5k Backplane or Midplane

**Action:**

1. Check Front Panel Module for errors or alerts
2. Power Cycle Enclosure
3. Replace Affected FRU (front backplane, rear backplane, midplane)

**Event: a5k.AlarmEvent-**  
**Component: backplane.fan**

**Severity: Error**  
**Actionable: Yes**

**Description:**

Fan 0 status changed from OK to [undefined] on DPL3 (wwn=508002000007a608)

**Info:**

The command luxadm has reported a non-optimal condition on the A5k Fan

**Action:**

1. Check Front Panel Module of A5k for any errors
2. Replace Fan if necessary
3. this and that



**Event: a5k.AlarmEvent-**  
Component: interface.iboard

**Severity: Error**  
**Actionable: Yes**

Description:

The state of interface\_board.A.mpx.state on Leno (wwn=5080020000032510) is 'Not OK'

**Event: a5k.AlarmEvent**

Component: disk

**Severity: Warning**

**Actionable: Yes**

**Description:**

disk\_rear.4' in A5K Leno (wwn=5080020000032510) is still 'OK-NotInstalled'

**Info:**

luxadm display of the a5k enclosure reported a change of the status  
or an non-optimal status.

**Event: a5k.AuditEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Auditing a new A5K called DPL4 (wwn=508002000001de30)

**Info:**

Audits occur every week.

**Event: a5k.CommunicationEstablishedEvent**  
Component: ib

**Severity: Info**  
**Actionable: No**

Description:  
Communication regained with A5K called DPL4

**Event: a5k.CommunicationLostEvent**

Component: ib

**Severity: Down**

**Actionable: Yes**

**Description:**

Lost communication with A5K called DPL4

**Info:**

This event is always done inband using luxadm

**Action:**

1. Verify cables, GBICs and connections along data path.
2. Check SAN Topology GUI to identify failing segment of the data path

**Event: a5k.DiagnosticTest-**  
**Component: a5ksestest**

**Severity: Error**  
**Actionable: No**

**Description:**

a5ksestest (diag240) on DPL3 (wwn=50800200000a3) failed

**Event: a5k.DiagnosticTest-**

**Component: a5ktest**

**Severity: Error**

**Actionable: No**

**Description:**

a5ktest (diag240) on DPL3 (wwn=50800200000a3) failed

**Event: a5k.DiscoveryEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Discovered a new A5K called DPL4 (wwn=508002000001de30)

**Info:**

Discovery events occur the very first time the agent probes a storage device.



**Event: a5k.InsertComponent**

Component: disk

**Severity: Info**

**Actionable: No**

Description:

'disk\_front.0'(200000203718ac0) was added to A5K DPL4

**Event: a5k.LocationChangeEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Location of a5k called DPL4 was changed

## Event: a5k.RemoveComponent

Component: disk

**Severity: Error**  
**Actionable: Yes**

### Description:

'disk\_front.0'(200000203718ac0) was removed from A5K DPL4

### Info:

Luxadm cannot see the wwn of a disk, it may have been removed.

### Action:

1. Check Front Panel Module of A5k and /var/adm/messages for any errors
2. Check for minimum disk configuration
  - \* A5000 (Front: 3,6 Back: 0,3,6)
  - \* A5100 (Front: 3,6 Back:0,3,6)
  - \* A5200 (Front: 0,5,10 Back: 0,3,6,10)
3. Reseat disk in enclosure
4. Replace Disk if necessary

**Event: a5k.StateChangeEvent+**

**Component: disk**

**Severity: Info**

**Actionable: No**

**Description:**

'disk\_front.0'(200000203718ac0) in A5K DPL4 (wwn=508002000001de30) is now Available, status-state changed from 'Bypassed-On' to 'Ok-On'

**Event: a5k.StateChangeEvent+**

**Component:** interface.iboard

**Severity: Info**

**Actionable: No**

**Description:**

'interface\_board.B' in A5K DPL4 (wwn=508002000001de30) is now Available, status-state changed from [undefined] to OK

**Event: a5k.StateChangeEvent+**

Component: power

**Severity: Info**

**Actionable: No**

Description:

'power.2' in A5K DPL4 (wwn=508002000001de30) is now Available, status-state changed from [undefined] to 'OK'

**Event: a5k.StateChangeEvent-**

Component: disk

**Severity: Error****Actionable: Yes****Description:**

'disk\_front.0'(200000203718ac0) in A5K DPL4 (wwn=508002000001de30) is now Not-Available, status-state changed from 'OK-On' to 'Bypassed\_BP:\_A-On'

**Info:**

This state of a disk in the a5k enclosure changed (luxadm)

**Action:**

1. Check /var/adm/messages for any reasons for this event
2. Enable disk via the Front Panel Module (FPM) on the A5200
  - \* CLI Usage: luxadm -e enable (-F) -(a | b) (encl\_name,disk)
  - \* Example: luxadm -e enable -F -a DPL4,f1
3. Replace disk if necessary

**Event: a5k.StateChangeEvent-**

Component: interface.iboard

**Severity: Error****Actionable: Yes****Description:**

'interface\_board.B' in A5K DPL4 (wwn=508002000001de30) is now Not-Available, status-state changed from 'OK' to 'Unavailable'

**Info:**

The command luxadm has reported a non-optimal condition on the A5k Interface Board

**Action:**

1. Check Front Panel Module of A5k for any errors
2. Reseat Interface Board
3. Replace Interface Board if necessary



**Event: a5k.StateChangeEvent-**

**Component: power**

**Severity: Error**

**Actionable: Yes**

**Description:**

'power.2' in A5K DPL3 (wwn=508002000007a608) is now Not-Available, status-state changed from 'OK' to 'undefined'

**Info:**

The command luxadm has reported a non-optimal condition on the A5k power supply

**Action:**

1. Check Front Panel Module of A5k for any errors
2. Reseat Power Supply
3. Replace Power Supply if necessary

**Event: agent.AgentDeinstallEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Agent on host 'host1' was deleted from the Config File

**Info:**

This event is generated when an administrator at a customer site decides to delete a host from the agent configuration, thereby ending the monitoring that was done from that host.

**Event: agent.AgentInstallEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Agent on host 'host1' was Added to the Config File

**Info:**

This event is generated when the agent is installed and activated on a host. When ras\_install is executed, it registers that host with the master agent which in turn generate this event.

**Event: agent.AlarmEvent**

**Component:**

**Severity: Warning**

**Actionable: Yes**

**Description:**

system errors

**Info:**

Errors were encountered when the agent daemon was attempting to run

**Action:**

1. Check Monitor -> Log -> Agent Errors for any messages
2. Run /opt/SUNWstade/bin/rasagent -d2 or -d3 from command line to see where the failure occurs

**Event: agent.AlternateMaster+**

**Component:**

**Severity: Warning**

**Actionable: No**

**Description:**

Master on 'host1' is back, Alternate-master 'host2' releasing

**Info:**

When the alternate master fails to ping the current master, it will try to take over by turning himself into a master and by telling all slaves to forward their information to him. The Alternate master turned master will still monitor the real master and give-up it's role as soon as possible.

**Event: agent.AlternateMaster-**  
**Component:**

**Severity: Warning**  
**Actionable: Yes**

**Description:**

Master on 'host1' is down, Alternate-master on 'host2' taking over

**Info:**

When the alternate master fails to ping the current master, it will try to take over by turning himself into a master and by telling all slaves to forward their information to him. The Alternate master turned master will still monitor the real master and give-up it's role as soon as possible.

**Action:**

1. Check Ethernet connectivity between Master and Slave hosts.
2. Verify host is powered on and booted correctly.

**Event:** agent.CommunicationEstablishedEvent  
**Component:** oob

**Severity:** Info  
**Actionable:** No

**Description:**  
Access to 'host1' at XX.XX.1.130 regained

**Event: agent.CommunicationLostEvent**

Component: ntc

**Severity: Error**

**Actionable: Yes**

Description:

Lost Communication(oob) with Terminal concentrator

Info:

The terminal concentrator (SE-solution) cannot be reach using ping.



**Event: agent.CommunicationLostEvent**

Component: oob

**Severity: Down****Actionable: Yes****Description:**

Cannot access 'host1' at XX.XX.1.130 (using udp ping)

**Info:**

The master agent lost communication with one or more of the slaves.

**Cause:**

An initial ping is done to each of the slaves. No response in 10 seconds yields an event.

**Action:**

1. Check Ethernet connectivity between Master and Slave hosts.
2. Verify host is powered on and booted correctly.
3. Where a hub/router is used, check the power and connectivity to the unit.

**Event: agent.HeartbeatEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Heartbeat

**Info:**

'Heartbeat events are generated every day unless there was already a transmission from this agent.'

**Event: brocade.AlarmEvent**

Component: sensor.fan

**Severity: Warning**

**Actionable: Yes**

Description:

The state of 'sensor.fan.5.status' on 172.20.67.164 (ip=172.20.67.164) is 'absent'

Info:

Action:

**Event: brocade.AlarmEvent**

Component: sensor.power-supply

**Severity: Warning**

**Actionable: Yes**

Description:

The state of 'sensor.power-supply.5.status' on 172.20.67.164 (ip=172.20.67.164) is  
'absent'

Info:

Action:

**Event: brocade.AlarmEvent**  
Component: sensor.temperature

**Severity: Warning**  
**Actionable: Yes**

Description:

The state of 'sensor.temperature.5.status' on 172.20.67.164 (ip=172.20.67.164) is 'absent'

Info:

Action:

**Event: brocade.AuditEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Auditing a new switch called ras d2-swb1 (ip=xxx.0.0.41) 10002000007a609

**Event: brocade.CommunicationEstablishedEvent**

Component: oob

**Severity: Info**

**Actionable: No**

Description:

Communication regained with sw1a (ip=xxx.20.67.213)

**Event: brocade.CommunicationLostEvent**

Component: oob

**Severity: Down**  
**Actionable: Yes**

**Description:**

Lost communication with sw1a (ip=xxx.20.67.213)

**Info:**

Ethernet connectivity to the switch has been lost

**Action:**

1. Check Ethernet connectivity to switch
2. Verify switch is booted correctly with no POST errors.
3. Verify switch Test Mode is set for normal operations
4. Verify TCP/IP settings on switch via Forced Prom Mode access
5. Replace switch if needed



**Event: brocade.DiagnosticTest-**

**Component: switchtest**

**Severity: Error**

**Actionable: No**

**Description:**

switchtest (diag240) on d2-swb1 (ip=xxx.0.0.41) 10002000007a609

**Event: brocade.DiscoveryEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Discovered a new switch called ras d2-swb1 (ip=xxx.0.0.41) 10002000007a609

**Info:**

Discovery events occur the very first time the agent probes a storage device.

**Event: brocade.LocationChangeEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Location of switch rasd2-swb0 (ip=xxx.0.0.40) was changed

**Event: brocade.LogEvent**

**Component: PortStatistics**

**Severity: Warning**

**Actionable: Yes**

**Description:**

Change in Port Statistics on switch diag156-sw1b (ip=192.168.0.31):

**Info:**

The switch has reported a change in an error counter. This could indicate a failing component in the link.

**Action:**

1. Check the Topology GUI for any link errors.
2. Run linktest on the link to isolate the failing FRU. Quiesce IO on the link 'before running linktest.

**Event: brocade.StateChangeEvent+**

**Component: port**

**Severity: Info**

**Actionable: No**

**Description:**

'port.1' in SWITCH diag185 (ip=xxx.20.67.185) is now Available (status-state changed from 'Offline' to 'Online')

**Info:**

Port on switch is now available

**Action:**

Port is online.

**Event: brocade.StateChangeEvent-**

**Component: port**

**Severity: Error**

**Actionable: Yes**

**Description:**

'port.1' in SWITCH diag185 (ip=xxx.20.67.185) is now Not-Available (status-state changed from 'Online' to 'Offline')

**Info:**

A port on the switch has logged out of the fabric and gone offline

**Action:**

1. Verify cables, GBICs and connections along Fibre Channel path
2. Check SAN Topology GUI to identify failing segment of the data path
3. Verify correct FC switch configuration

**Event: brocade.Statistics**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Statistics about switch d2-swb1 (ip=xxx.0.0.41) 10002000007a609

**Info:**

Port Statistics

**Event: host.AlarmEvent+**

**Component: hba**

**Severity: Warning**

**Actionable: No**

**Description:**

status of hba /devices/sbus@9,0/SUNW,qlc@0,30000/fp@0,0:devctl on diag245.central.sun.com  
changed from NOT CONNECTED to CONNECTED

**Info:**

monitors changes in the output of luxadm -e port



**Event: host.AlarmEvent-**

**Component: hba**

**Severity: Error**  
**Actionable: Yes**

**Description:**

status of hba /devices/sbus@9,0/SUNW,qlc@0,30000/fp@0,0:devctl on diag245.central.sun.com  
changed from CONNECTED to NOT CONNECTED

**Info:**

monitors changes in the output of luxadm -e port

Found path to 20 HBA ports

/devices/sbus@2,0/SUNW,socal@d,10000:0 NOT CONNECTED

.....

**Event: host.AlarmEvent-**

Component: lun.T300

**Severity: Error**  
**Actionable: Yes****Description:**

The state of lun.T300.c14t50020F2300003EE5d0s2.statusA on diag245.central.sun.com changed from 'O.K.' to 'ERROR' (target=t3:diag244-t3b0/90.0.0.40)

**Info:**

luxadm display reported a change in the port-status of one of it's paths. The agent then tries to find which enclosure this path correspond to by reviewing it database of T3's and VE's.

luxadm display 2a00006022004188

DEVICE PROPERTIES for disk: 2a00006022004188

Status(Port A): O.K. \*\*\*\* monitoring this field.

Vendor: SUN

Product ID: SESS01

WWN(Node): 2a00006022004188

WWN(Port A): 2b00006022004188

Revision: 080D

Serial Num: Unsupported

Unformatted capacity: 241724.000 MBytes

Write Cache: Enabled

Read Cache: Enabled

Minimum prefetch: 0x0

Maximum prefetch: 0x0

Device Type: Disk device

Path(s):

/dev/rdisk/c7t2B00006022004188d0s2

/devices/sbus@8,0/SUNW,qlc@1,30000/fp@0,0/ssd@w2b00006022004188,0:c,raw

**Event: host.AlarmEvent-**

Component: lun.VE

**Severity: Error**  
**Actionable: Yes****Description:**

The state of lun.VE.c14t50020F2300003EE5d0s2.statusA on diag245.central.sun.com changed from 'O.K.' to 'ERROR' (target=ve:diag244-ve0/90.0.0.40)

**Info:**

luxadm display reported a change in the port-status of one of it's paths. The agent then tries to find which enclosure this path correspond to by reviewing it database of T3's and VE's.

luxadm display 2a00006022004193

DEVICE PROPERTIES for disk: 2a00006022004193

Status(Port A): O.K. \*\*\*\*\* monitoring

Vendor: SUN

Product ID: SESS01 \*\*\*\*\* SESS means Virtualization Engine

WWN(Node): 2a00006022004193

WWN(Port A): 2b00006022004193

Revision: 080D

Serial Num: Unsupported

Unformatted capacity: 241724.000 MBytes

Write Cache: Enabled

Read Cache: Enabled

Minimum prefetch: 0x0

Maximum prefetch: 0x0

Device Type: Disk device

Path(s):

/dev/rdisk/c10t2B00006022004193d0s2

/devices/sbus@9,0/SUNW,qlc@0,30400/fp@0,0/ssd@w2b00006022004193,0:c,raw

**Event: host.DiagnosticTest-**  
**Component: ifptest**

**Severity: Error**  
**Actionable: No**

**Description:**  
ifptest (diag240) on host failed

**Event: host.DiagnosticTest-**  
Component: qlctest

**Severity: Error**  
**Actionable: No**

Description:

qlctest (diag240) on host failed

**Event: host.DiagnosticTest-**  
Component: socaltest

**Severity: Error**  
**Actionable: No**

Description:

socaltest (diag240) on host failed

**Event: host.PatchInfo**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

New Patch and Package Information generated

**Info:**

sending Patch and Package information to Providers

**Event: host.backup**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Agent Backup

**Info:**

Backup of the configuration file of the agent.



**Event: message.LogEvent**  
Component: driver.ELS\_RETRY

**Severity: Warning**  
**Actionable: Yes**

Description:

(sfd+):s+ELSs+.\*(targets+0x[0-9a-f]+)s+retrying

Info:

Target and Loop ELS Retry

**Event: message.LogEvent**

Component: driver.Fabric\_Warning

**Severity: Warning**

**Actionable: No**

Description:

PWWN:10e043343efd300 dissappeared

Info:

Fabric warning

**Event: message.LogEvent**

Component: driver.Firmware\_Change

**Severity: Warning**

**Actionable: Yes**

Description:

The recommended firmware version for this application is ...

**Event: message.LogEvent**

Component: driver.LOOP\_OFFLINE

**Severity: Warning**

**Actionable: No**

Description:

NOTICE: .\* OFFLINE

Info:

Loop Offline

**Event: message.LogEvent**  
Component: driver.LOOP\_ONLINE

**Severity: Info**  
**Actionable: No**

Description:

NOTICE: .\* ONLINE

Info:

Loop Online

**Event: message.LogEvent**

Component: driver.MPXIO

**Severity: Warning**

**Actionable: No**

Description:

MPXIO failover

**Event: message.LogEvent**  
Component: driver.MPXIO\_offline

**Severity: Warning**  
**Actionable: No**

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Description:

mpxio: target address: WWN offline

**Event: message.LogEvent**

Component: driver.PFA

**Severity: Warning**

**Actionable: No**

Description:

failure prediction threshold exceeded

Info:

Predictive failure analysis entry



**Event: message.LogEvent**  
Component: driver.SCSI\_ASC

**Severity: Warning**  
**Actionable: No**

Description:  
ASC: 0x

**Event: message.LogEvent**

Component: driver.SCSI\_TRAN\_FAILED

**Severity: Warning**

**Actionable: No**

Description:

SCSI transport failed: reason ...

**Event: message.LogEvent**

Component: driver.SCSI\_TR\_READ

**Severity: Error**

**Actionable: Yes**

Description:

/Error for Command: read\(\d+\)s+Error Level: Retryable

Info:

Error on SCSI read. >= 5.7

**Event: message.LogEvent**

Component: driver.SCSI\_TR\_WRITE

**Severity: Error**

**Actionable: Yes**

**Description:**

Error for Command: write\(\d+\)s+Error Level: Retryable

**Info:**

Error on SCSI write. >= 5.7

**Event: message.LogEvent**

Component: driver.SFOFFTOWARN

**Severity: Warning**

**Actionable: Yes**

Description:

WARNING.\*\((sfd+)\) next = /Offline Timeout/

Info:

Offline Timeout

**Event: message.LogEvent**

Component: driver.SF\_CRC\_ALERT

**Severity: Error**

**Actionable: Yes**

Description:

WARNING.\*\((sfd+)\) next = /CRC/

Info:

Loop CRC, DMA and Timeout Warnings

**Event: message.LogEvent**

**Component: driver.SF\_CRC\_WARN**

**Severity: Warning**

**Actionable: Yes**

**Description:**

WARNING.\*\((sfd+)\), next = /CRC/

**Info:**

Loop CRC, DMA and Timeout Warnings

**Event: message.LogEvent**

Component: driver.SF\_DMA\_WARN

**Severity: Warning**

**Actionable: Yes**

Description:

WARNING.\*\((sfd+)\) next = /INCOMPLETE DMA XFER/

Info:

Incomplete DMA Transfer.



**Event: message.LogEvent**

Component: driver.SF\_OFFLALERT

**Severity: Error**

**Actionable: Yes**

Description:

(social+:s+ports\*d+):.\*OFFLINE\$

Info:

Error: social/ifp Offline, >= 5.7

**Event: message.LogEvent**  
Component: driver.SF\_OFFLINE

**Severity: Warning**  
**Actionable: Yes**

Description:

socal12: port 12:. \* OFFLINE

Info:

Warning: socal/ifp Offline , >= 5.7

**Event: message.LogEvent**  
Component: driver.SF\_RESET

**Severity: Warning**  
**Actionable: Yes**

Description:

WARNING.\*\((sfd+)\) next = /(sfd+):.\*sf\_reset/

Info:

SF Reset

**Event: message.LogEvent**  
Component: driver.SF\_RETRY

**Severity: Warning**  
**Actionable: Yes**

Description:

(sfd+):s+ELSs+.\*(targets+0x[0-9a-f]+)s+retrying

Info:

Target and Loop ELS Retry

**Event: message.LogEvent**  
Component: driver.SSD\_ALERT

**Severity: Error**  
**Actionable: Yes**

Description:

WARNING.\*\((ssdd+)\)

Info:

SSD Alert

**Event: message.LogEvent**  
Component: driver.SSD\_WARN

**Severity: Warning**  
**Actionable: Yes**

Description:

WARNING.\*\((ssdd+)\)

Info:

SSD warnings

**Event: message.LogEvent**

Component: error

**Severity: Error**

**Actionable: Yes**

Description:

Errors(s) found in logfile: /var/adm/messages

Info:

Errors found.

**Event: message.LogEvent**

Component: warning

**Severity: Warning**

**Actionable: No**

Description:

Warnings(s) found in logfile: /var/adm/messages

Info:

Warnings found in /var/adm/messages



**Event: san.LinkEvent.CRC**

**Component: host|storage**

**Severity: Warning**

**Actionable: Yes**

**Description:**

12-14 06:35:25 CRC-ERROR (33288 in 1 mins): Origin: hba-1 on 'host  
'diag209.central.sun.com'. Destination: IB-A on 'a5k 'DISP1'

**Info:**

CRC went up on port of Storage, source of error was a host.

**Cause:**

Likely Causes are: HBA, GBIC, FC Cable and Storage optical connection.

**Action:**

To isolate further please run the link, HBA, and storage tests.

**Event: san.LinkEvent.CRC**

Component: host|switch

**Severity: Warning**

**Actionable: Yes**

**Description:**

12-14 06:35:25 CRC-ERROR (33288 in 1 mins): Origin: hba-1 on 'host  
'diag209.central.sun.com'. Destination: port 2 on switch 'sw1b/192.168.0.31':

**Info:**

A CRC counter was detected on a switch port. Source was a host.  
This may indicate a potential problem on this link segment.

**Cause:**

Likely Causes are: Host HBA/GBIC, FC cable and Switch GBIC.

**Action:**

To isolate further please run the link, switch and host tests.

**Event: san.LinkEvent.CRC**

**Component: switch|a3500fc**

**Severity: Warning**

**Actionable: Yes**

**Description:**

12-14 06:35:25 CRC-ERROR (1309488 in 1 mins): Origin: port 1 on switch  
'sw1b/192.168.0.31': Destination: controller-1 on 'a3500fc 'DISP1'.

**Info:**

CRC went up on port of Storage, source is the switch.

**Cause:**

Likely Cause: Switch, Switch GBIC, FC Cable, storage optical port.

**Action:**

To isolate further please run the link, switch and storage tests.

**Event: san.LinkEvent.CRC**

Component: switch|a5k

**Severity: Warning**

**Actionable: Yes**

**Description:**

12-14 06:35:25 CRC-ERROR (1309488 in 1 mins): Origin: port 1 on switch  
'sw1b/192.168.0.31': Destination: IB-A on 'a5k 'DISP1'.

**Info:**

A link error threshold (CRC) was reached between the switch and storage.

**Cause:**

Likely Causes are: Switch, Switch GBIC, FC Cable or IB GBIC.

**Action:**

To isolate further please run the link, switch and storage tests.

**Event: san.LinkEvent.CRC**

**Component: switch|storage**

**Severity: Warning**

**Actionable: Yes**

**Description:**

12-14 06:35:25 CRC-ERROR (33288 in 1 mins): Origin: port 2 on switch 'sw1b/192.168.0.31',  
Destination: IB-A on 'a5k 'DISP1'

**Info:**

A link error (CRC) was detected between the switch and storage.

**Cause:**

Likely Causes are: Switch, Switch GBIC, FC Cable and storage optical interface.

**Action:**

To isolate further please run the link, switch and storage tests.

**Event: san.LinkEvent.CRC**

**Component: switch|switch**

**Severity: Warning**

**Actionable: Yes**

**Description:**

12-12 09:36:08 CRC-ERROR (1885 in 1 mins): Origin: port 7 on 'switch '172.20.67.154'.

Destination: port 15 on switch 'switch197/172.20.67.197':

**Info:**

A CRC counter on a switch port went up by a certain threshold, The problem is in the link between the 2 switch ports.

**Cause:**

Likely Causes are: GBICs, FC Cable and switch ports.

**Action:**

To isolate further please run the link and switch tests.

**Event: san.LinkEvent.CRC**

**Component: switch|t3**

**Severity: Warning**

**Actionable: Yes**

**Description:**

12-14 06:35:25 CRC-ERROR (1309488 in 1 mins): Origin: port 1 on switch  
'sw1b/192.168.0.31': Destination: ctrl-2 on 't3 'diag209-t3b0'.

**Info:**

A link error (CRC) was detected between the switch and storage.

**Cause:**

Likely Causes are: GBIC, FC Cable and storage optical interface.

**Action:**

To isolate further please run the link, switch and storage tests.

**Event: san.LinkEvent.CRC**

Component: ve|switch

**Severity: Warning**

**Actionable: Yes**

**Description:**

08 13:26:16 CRC-ERROR (680 in 1 mins): Origin: port 1 on 've 'msp0-v1a/29000060220041f4'.

Destination: port 1 on switch '192.168.0.30':

**Info:**

A link error threshold (CRC) was reached between the switch and Virtualization Engine.

**Cause:**

Likely Causes are: VE GBIC, FC Cable or switch GBIC.

**Action:**

To isolate further please run the link, VE and switch tests.



**Event: san.LinkEvent.ITW**

Component: Any|Any

**Severity: Warning**

**Actionable: Yes**

**Description:**

12-14 06:35:25 ITW-ERROR (33288 in 1 mins): Origin: port 2 on switch 'sw1b/192.168.0.31',  
Destination: IB-A on 'a5k 'DISP1'

**Info:**

An invalid transmission word (ITW) was detected between two components. This could indicate a potential problem.

**Cause:**

Likely Causes are: GBIC, FC Cable and device optical connections.

**Action:**

To isolate further please run the tests associated with this link segment.

**Event: switch.AlarmEvent**

Component: chassis.fan

**Severity: Warning**

**Actionable: Yes**

Description:

chassis.fan.1 status changed from OK to Invalid

Info:

Action:

**Event: switch.AlarmEvent**

Component: chassis.power

**Severity: Warning**

**Actionable: Yes**

**Description:**

chassis.power.1 status changed from OK to Invalid

**Info:**

This event monitors changes in the status of the chassis's power supply as reported by sanbox chassis\_status <ipno>.

**Event: switch.AlarmEvent**

Component: chassis.temp

**Severity: Warning**

**Actionable: Yes**

**Description:**

chassis.temp.1 status changed from OK to Invalid

**Info:**

This event monitors changes in the status of the chassis's temperature supply as reported by sanbox chassis\_status <ipno>.

**Event: switch.AlarmEvent**

Component: chassis.zone

**Severity: Warning**

**Actionable: No**

Description:

Switch sw1a was rezoned: [ new zones ...]

Info:

Reports changes in the zoning of a switch.

**Event: switch.AuditEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Auditing a new switch called ras d2-swb1 (ip=xxx.0.0.41) 10002000007a609

**Event: switch.CommunicationEstablishedEvent**

**Component: oob**

**Severity: Info**

**Actionable: No**

**Description:**

Communication regained with sw1a (ip=xxx.20.67.213)

**Event: switch.CommunicationLostEvent**

Component: oob

**Severity: Down**

**Actionable: Yes**

**Description:**

Lost communication with sw1a (ip=xxx.20.67.213)

**Info:**

Ethernet connectivity to the switch has been lost

**Action:**

1. Check Ethernet connectivity to switch
2. Verify switch is booted correctly with no POST errors.
3. Verify switch Test Mode is set for normal operations
4. Verify TCP/IP settings on switch via Forced Prom Mode access
5. Replace switch if needed



**Event: switch.DiagnosticTest-**  
Component: switchtest

**Severity: Error**  
**Actionable: No**

Description:

switchtest (diag240) on d2-swb1 (ip=xxx.0.0.41) 10002000007a609

**Event: switch.DiscoveryEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Discovered a new switch called ras d2-swb1 (ip=xxx.0.0.41) 10002000007a609

**Info:**

Discovery events occur the very first time the agent probes a storage device.

**Event: switch.LocationChangeEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Location of switch rasd2-swb0 (ip=xxx.0.0.40) was changed

**Event: switch.LogEvent**

**Component: PortStatistics**

**Severity: Warning**

**Actionable: Yes**

**Description:**

Change in Port Statistics on switch diag156-sw1b (ip=192.168.0.31):

**Info:**

The switch has reported a change in an error counter. This could indicate a failing component in the link.

**Action:**

1. Check the Topology GUI for any link errors.
2. Run linktest on the link to isolate the failing FRU. Quiesce IO on the link 'before running linktest.

**Event: switch.StateChangeEvent+**

Component: port

**Severity: Info**

**Actionable: No**

**Description:**

'port.1' in SWITCH diag185 (ip=xxx.20.67.185) is now Available (status-state changed from 'Offline' to 'Online')

**Info:**

Port on switch is now available

**Action:**

Port is online.

**Event: switch.StateChangeEvent-**

**Component: port**

**Severity: Error**

**Actionable: Yes**

**Description:**

'port.1' in SWITCH diag185 (ip=xxx.20.67.185) is now Not-Available (status-state changed from 'Online' to 'Offline')

**Info:**

A port on the switch has logged out of the fabric and gone offline

**Action:**

1. Verify cables, GBICs and connections along Fibre Channel path
2. Check SAN Topology GUI to identify failing segment of the data path
3. Verify correct FC switch configuration

**Event: switch.Statistics**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Statistics about switch d2-swb1 (ip=xxx.0.0.41) 10002000007a609

**Info:**

Port Statistics

**Event: t3.AlarmEvent+**  
Component: power.temp

**Severity: Info**  
**Actionable: No**

Description:

The state of power.u1pcu1.PowTemp on diag213 (ip=xxx.20.67.213) is Normal



**Event: t3.AlarmEvent-**

Component: disk.port

**Severity: Error**  
**Actionable: Yes****Description:**

The state of disk.u1d1.Port1State on T3 t300 changed from 'OK' to 'failed'

**Info:**

The T3 has reported that one port of a dual-ported disk has failed

**Action:**

1. Telnet to affected T3
2. Verify disk state in 'fru stat', 'fru list' and 'vol stat'

Drive Status Messages:

Value Description

- |   |  |
|---|--|
| 0 | Drive mounted                                |
| 2 | Drive present                                |
| 3 | Drive is spun up                             |
| 4 | Drive is disable                             |
| 5 | Drive has been replaced                      |
| 7 | Invalid system area on drive                 |
| 9 | Drive Not Present                            |
| D | Drive disabled; drive is being reconstructed |
| S | Drive Drive Substituted                      |
3. Replace disk if necessary

**Event: t3.AlarmEvent-**

Component: interface.loopcard.cable

**Severity: Error****Actionable: Yes****Description:**

The state of loopcard.u1l1.CableState changed from 'OK' to 'failed'

**Info:**

The T3 has reported that a loopcard is in a failed state

**Action:**

1. Telnet to affected T3
2. Verify loopcard state with 'fru stat'
3. Verify matching firmware with other loopcard
4. Re-enable loopcard if possible (enable u(encid)l[1|2])
5. Replace loopcard if necessary

**Event: t3.AlarmEvent-**  
Component: power.battery

**Severity: Error**  
**Actionable: Yes**

**Description:**

The state of power.u1pcu1.BatState on diag213 (ip=xxx.20.67.213) is Fault

**Info:**

The state of the batteries in the T3 is not optimal

**Action:**

1. Telnet to affected T3
2. Run 'refresh -s' to verify battery state
3. Replace battery if necessary

**Event: t3.AlarmEvent-**

**Component: power.fan**

**Severity: Error**

**Actionable: Yes**

**Description:**

The state of power.u1pcu1.Fan1State on diag213 (ip=xxx.20.67.213) is Fault

**Info:**

The state of a fan on the T3 is not optimal

**Action:**

1. Telnet to affected T3
2. Verify fan state with 'fru stat'
3. Replace Power Cooling Unit if necessary

**Event: t3.AlarmEvent-**  
**Component: power.output**

**Severity: Error**  
**Actionable: Yes**

**Description:**

The state of power.u1pcu1.PowOutput on diag213 (ip=xxx.20.67.213) is Fault

**Info:**

The state of the power in the T3 Power Cooling Unit is not optimal. Possible causes are: 1. Voltage Level on Power Supply and Battery have moved out of acceptable thresholds. 2. The internal PCU temp has exceeded acceptable thresholds. 3. A PCU fan has failed.

**Action:**

1. Telnet to affected T3
2. Verify Power Cooling Unit State in 'fru stat'
3. Replace PCU if necessary

**Event: t3.AlarmEvent-**  
**Component: power.temp**

**Severity: Error**  
**Actionable: Yes**

**Description:**

The state of power.u1pcu1.PowTemp on diag213 (ip=xxx.20.67.213) is Fault

**Info:**

The state of the temperature in the T3 Power Cooling Unit is either too high or is unknown.

**Action:**

1. Telnet to affected T3
2. Verify Power Cooling Unit state in 'fru stat'
3. Replace PCU if necessary

**Event: t3.AlarmEvent.log**

**Component:**

**Severity: Error**

**Actionable: Yes**

**Description:**

Errors(s) found in logfile: /var/adm/messages.t3

**Info:**

This event includes all important errors found.

**Action:**

1. Check the messages file for appropriate action

**Event: t3.AlarmEvent.timeDiscrepancy**

**Severity: Warning**

**Component:**

**Actionable: No**

**Description:**

Time of T3 diag213 (ip=xxx.20.67.213) is different from host: T3=Fri Oct 26 10:16:17 200,  
Host=2001-10-26 12:21:04

**Action:**

1) Fix the date/time on the T3 using the date command. Date and time should be the same as the monitoring host.



**Event: t3.AuditEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Auditing a new T3 called ras d2-t3b1 (ip=xxx.0.0.41) slr-mi.370-3990-01-e-e1.003239

**Info:**

Audits occur every week

**Event: t3.CommunicationEstablishedEvent**

Component: ib

**Severity: Info**

**Actionable: No**

**Description:**

Communication regained (InBand(ccadieux)) with diag213 (ip=xxx.20.67.213) ( last reboot was 2001-09-27 15:22:00)

**Info:**

InBand Communication

**Event: t3.CommunicationEstablishedEvent**

Component: oob

**Severity: Info**

**Actionable: No**

Description:

Communication regained (OutOfBand(ccadieux)) with diag213 (ip=xxx.20.67.213)

Info:

OutOfBand communications

**Event: t3.CommunicationLostEvent**

Component: ib

**Severity: Down****Actionable: Yes****Description:**

Lost communication (InBand(ccadieux)) with diag213 (ip=xxx.20.67.213) ( last reboot was 2001-09-27 15:22:00)

**Info:**

InBand. This event is established using luxadm. This monitoring may not be activated for a particular T3.

**Action:**

1. Verify luxadm via command line (luxadm probe, luxadm display </dev/rdisk/c##t##d##s2>)
2. Verify cables, GBICs and connections along data path.
3. Check SAN Topology GUI to identify failing segment of the data path
4. Verify correct FC switch configuration (If applicable)

**Event: t3.CommunicationLostEvent**

Component: oob

**Severity: Down****Actionable: Yes****Description:**

Lost communication (OutOfBand(ccadieux)) with diag213 (ip=xxx.20.67.212)

**Info:**

OutOfBand. This means that the t3 failed to answer to ping or failed to return it's tokens.

**Cause:**

This problem can also be caused by a very slow network, or because the ethernet connection to this T3 was lost.

**Action:**

1. Check Ethernet connectivity to the affected T3
2. Verify T3 is booted correctly
3. Verify correct TCP/IP settings on T3
4. Increase the http and/or ping timeout in Utilities -> System -> System-Timeouts. The current default timeouts are 10 secs for ping, 60 secs for http (tokens).

**Event: t3.DiagnosticTest-**  
**Component: t3ofdg**

**Severity: Error**  
**Actionable: No**

**Description:**

t3ofdg (diag240) on diag213 (ip=xxx.20.67.213) failed

**Event: t3.DiagnosticTest-**

**Component: t3test**

**Severity: Error**

**Actionable: No**

**Description:**

t3test (diag240) on diag213 (ip=xxx.20.67.213) failed

**Event: t3.DiagnosticTest-**

**Component: t3volverify**

**Severity: Error**

**Actionable: No**

**Description:**

t3volverify (diag240) on diag213 (ip=xxx.20.67.213) failed



**Event: t3.DiscoveryEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Discovered a new T3 called ras d2-t3b1 (ip=xxx.0.0.41) slr-mi.370-3990-01-e-e1.003239

**Info:**

Discovery events occur the very first time the agent probes a storage device.

**Event: t3.InsertComponent**

Component: controller

**Severity: Info**

**Actionable: No**

**Description:**

'controller.u1ctr'(id) was added to T3 diag213 (ip=xxx.20.67.213)

**Info:**

A new Controller, as identified by it's serial#, has been installed on the T3.

**Event: t3.InsertComponent**

Component: disk

**Severity: Info**

**Actionable: No**

**Description:**

disk.u2d3(SEAGATE.ST318203FSUN18G.LRG07139) was added to diag158 (ip=xxx.20.67.158)

**Info:**

A new Disk, as identified by it's serial#, has been installed on the T3.

**Event: t3.InsertComponent**  
Component: interface.loopcard

**Severity: Info**  
**Actionable: No**

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Info:

A new LoopCard, as identified by it's serial#, has been installed on the T3.

**Event: t3.InsertComponent**

Component: power

**Severity: Info**

**Actionable: No**

**Description:**

'power.u1pcu2'(TECTROL-CAN.300-1454-01(50).008275) was added to T3 diag213  
(ip=xxx.20.67.213)

**Info:**

A new Power Supply, as identified by it's serial#, has been installed  
on the T3.

**Event: t3.LocationChangeEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Location of t3 rasd2-t3b0 (ip=xxx.0.0.40) was changed

**Event: t3.QuiesceEndEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Quiesce End on t3 d2-t3b1 (ip=xxx.0.0.41)

**Event: t3.QuiesceStartEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Quiesce Start on t3 d2-t3b1 (ip=xxx.0.0.41)



**Event: t3.RemovalEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Monitoring of t3 d2-t3b1 (ip=xxx.0.0.41) ended

**Event: t3.RemoveComponent**

Component: controller

**Severity: Error****Actionable: Yes****Description:**

'controller.u1ctr'(id) was removed from T3 diag213 (ip=xxx.20.67.213)

**Info:**

The T3 has reported that a controller was removed from the chassis

**Action:**

1. Replace controller within 30 minute power shutdown window

**Event: t3.RemoveComponent**

Component: disk

**Severity: Error****Actionable: Yes****Description:**

disk.u2d3(SEAGATE.ST318203FSUN18G.LRG07139) was removed from diag158 (ip=xxx.20.67.158)

**Info:**

The T3 has reported a disk has been removed from the chassis

**Action:**

1. Replace Disk within 30 minute power shutdown window

**Event: t3.RemoveComponent**

Component: interface.loopcard

**Severity: Error**

**Actionable: Yes**

**Info:**

The T3 has reported that a loopcard has been removed from the chassis

**Action:**

1. Replace loopcard within 30 minute power shutdown window

## Event: t3.RemoveComponent

Component: power

Severity: Error

Actionable: Yes

### Description:

'power.u1pcu2'(TECTROL-CAN.300-1454-01(50).008275) was removed from T3 diag213  
(ip=xxx.20.67.213)

### Info:

The T3 has reported that a Power Cooling Unit has been removed from the chassis

### Action:

1. Replace PCU within 30 minute shutdown window

**Event: t3.StateChangeEvent+**

Component: controller

**Severity: Info**

**Actionable: No**

Description:

'controller.u1ctr' in T3 diag213 (ip=xxx.20.67.213) is now Available (status-state changed from 'disabled' to 'ready-enabled')

**Event: t3.StateChangeEvent+**

Component: disk

**Severity: Info**

**Actionable: No**

**Description:**

'disk.u1d5' in T3 rasd3-t3b1 (ip=xxx.0.0.41) is now Available (status-state changed from 'fault-disabled' to 'ready-enabled'):

**Event: t3.StateChangeEvent+**

Component: interface.loopcard

**Severity: Info**

**Actionable: No**

Description:

'loopcard.u1l1'(SLR-MI.375-0085-01-G-G4.070924) in T3 msp0-t3b0 (ip=192.

Info:

'The T3 has reported that a Loop Card has been replaced or brought back online



**Event: t3.StateChangeEvent+**

Component: power

**Severity: Info**

**Actionable: No**

Description:

'power.u1pcu2'(TECTROL-CAN.300-1454-01(50).008275) in T3 rasd2-t3b1 (ip=xxx.0.0.41) is now Available (status-state changed from 'ready-disable' to 'ready-enable'):

**Event: t3.StateChangeEvent+**

Component: volume

**Severity: Info**

**Actionable: No**

**Description:**

'volume.u1vol1'(slr-mi.370-3990-01-e-f0.022542.u1vol1) in T3 dvt2-t3b0 (ip=192.168.0.40)  
is now Available (status-state changed from 'unmounted' to 'mounted')

**Info:**

'The T3 has reported that a LUN has changed state

**Event: t3.StateChangeEvent-**

Component: controller

**Severity: Error****Actionable: Yes****Description:**

'controller.u1ctr' in T3 diag213 (ip=xxx.20.67.213) is now Not-Available (status-state changed from 'unknown' to 'ready-disabled')

**Info:**

The T3 controller has been disabled

**Action:**

1. Telnet to affected T3
2. Verify controller state with 'fru stat' and 'sys stat'
3. Re-enable controller if possible (enable u<encid>)
4. Run 'logger -dmpstlog' from a serial port session on affected controller
5. Replace controller if necessary

**Event: t3.StateChangeEvent-**

Component: disk

**Severity: Error**  
**Actionable: Yes****Description:**

'disk.u1d5' in T3 rasd3-t3b1 (ip=xxx.0.0.41) is now Not-Available (status-state changed from 'unknown' to 'fault-disabled'):

**Info:**

The T3 has reported that a disk has failed

**Action:**

1. Telnet to affected T3
2. Verify disk state with 'vol stat', 'fru stat' and 'fru list'

**Drive Status Messages:**

Value/ Description

- 0 Drive mounted
  - 2 Drive present
  - 3 Drive is spun up
  - 4 Drive is disable
  - 5 Drive has been replaced
  - 7 Invalid system area on drive
  - 9 Drive Not Present
  - D Drive disabled; drive is being reconstructed
  - S Drive Drive Substituted
3. Replace disk if necessary

**Event: t3.StateChangeEvent-**  
**Component: interface.loopcard**

**Severity: Error**  
**Actionable: Yes**

**Info:**

The T3 has indicated that the loopcard is no longer in an optimal state

**Action:**

1. Telnet to affected T3
2. Verify loopcard state with 'fru stat'
3. Verify matching firmware with other loopcard
4. Re-enable loopcard if possible (enable u(encid)l[1|2])
5. Replace loopcard if necessary

**Event: t3.StateChangeEvent-**

Component: power

**Severity: Error**  
**Actionable: Yes****Description:**

'power.u1pcu2'(TECTROL-CAN.300-1454-01(50).008275) in T3 rasd2-t3b1 (ip=xxx.0.0.41) is now Not-Available (status-state changed from 'ready-enabled' to 'ready-disable'):

**Info:**

The T3 has reported that a Power Cooling Unit has been disabled

**Action:**

1. Check T3 syslog for battery hold times
2. If < 6 minutes, replace battery or entire PCU as required.

**Event: t3.StateChangeEvent-**

Component: volume

**Severity: Error**  
**Actionable: Yes****Info:**

The T3 has reported that a LUN has changed state

**Action:**

1. Telnet to affected T3
2. Check status of LUNs via 'vol mode' or 'vol stat' from T3
3. Check disk status with 'fru stat' and 'vol stat'

**Drive Status Messages:**

Value/ Description

0 Drive mounted

2 Drive present

3 Drive is spun up

4 Drive is disable

5 Drive has been replaced

7 Invalid system area on drive

9 Drive Not Present

D Drive disabled; drive is being reconstructed

S Drive Drive Substituted

**Event: t3.Statistics**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Statistics about T3 d2-t3b1 (ip=xxx.0.0.41)



**Event: tape.AuditEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Auditing a tape 'tape1' 10002000007a609

**Info:**

Audits occur every week.

**Event: tape.CommunicationEstablishedEvent**

**Component: oob**

**Severity: Info**

**Actionable: No**

**Description:**

Communication regained with tape 'tape1'

**Event: tape.CommunicationLostEvent**

Component: oob

**Severity: Down**  
**Actionable: Yes**

**Description:**

Lost communication with tape 'tape1'

**Info:**

In-Band communication to a fibre channel tape drive has been lost

**Action:**

1. Verify cables, GBICs and connections along data path.
2. Check SAN Topology GUI to identify failing segment of the data path
3. Verify correct FC switch configuration (if present)

**Event: tape.DiagnosticTest-**

**Component: fctapetest**

**Severity: Error**

**Actionable: No**

**Description:**

fctapetest (diag240) on tape-2 (ip=xxx.20.67.213) failed

**Event: tape.DiscoveryEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Discovered a new tape called tape1 10002000007a609

**Info:**

Discovery events occur the very first time the agent probes a storage device.

**Event: tape.LocationChangeEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Location of tape 'tape1' changed

**Event: tape.StateChangeEvent+**

**Component: port**

**Severity: Info**

**Actionable: No**

**Description:**

'port.A' in TAPE 'tape1' is now Available (status-state changed from 'Offline' to 'Online')

**Event: tape.StateChangeEvent-**

**Component: port**

**Severity: Error**

**Actionable: Yes**

**Description:**

'port.A' in TAPE 'tape1' is now Not-Available (status-state changed from 'Online' to 'Offline')

**Info:**

In-Band communication to one port of a dual-ported tape drive has been lost

**Action:**

1. Verify cables, GBICs and connections along data path.
2. Check SAN Topology GUI to identify failing segment of the data path
3. Verify correct FC switch configuration (if present)



**Event: a5k.AlarmEvent-**  
**Component: backplane.fan**

**Severity: Error**  
**Actionable: Yes**

**Description:**

Fan 0 status changed from OK to [undefined] on DPL3 (wwn=508002000007a608)

**Info:**

The command luxadm has reported a non-optimal condition on the A5k Fan

**Action:**

1. Check Front Panel Module of A5k for any errors
2. Replace Fan if necessary
3. this and that

**Event: a5k.AlarmEvent-**  
Component: base\_loopB

**Severity: Warning**  
**Actionable: Yes**

Description:

The state of SSC.base\_loopb.status on dak-cte (wwn=508002000011d710) is 'NotInstalled'  
Info:

**Event: a5k.AlarmEvent-**  
Component: interface.iboard

**Severity: Error**  
**Actionable: Yes**

Description:

The state of interface\_board.A.mpx.state on Leno (wwn=5080020000032510) is 'Not OK'

**Event: a5k.AlarmEvent**

Component: disk

**Severity: Warning**

**Actionable: Yes**

**Description:**

disk\_rear.4' in A5K Leno (wwn=5080020000032510) is still 'OK-NotInstalled'

**Info:**

luxadm display of the a5k enclosure reported a change of the status  
or an non-optimal status.

**Event: a5k.AuditEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Auditing a new A5K called DPL4 (wwn=508002000001de30)

**Info:**

Audits occur every week.

**Event: a5k.CommunicationEstablishedEvent**  
**Component: ib**

**Severity: Info**  
**Actionable: No**

**Description:**  
Communication regained with A5K called DPL4

**Event: a5k.CommunicationLostEvent**

**Component: ib**

**Severity: Down**  
**Actionable: Yes**

**Description:**

Lost communication with A5K called DPL4

**Info:**

This event is always done inband using luxadm

**Action:**

1. Verify cables, GBICs and connections along data path.
2. Check StorAde SAN Topology GUI to identify failing segment of the data path

**Event: a5k.DiagnosticTest-**  
**Component: a5ksestest**

**Severity: Error**  
**Actionable: No**

**Description:**

a5ksestest (diag240) on DPL3 (wwn=50800200000a3) failed



**Event: a5k.DiagnosticTest-**

**Component: a5ktest**

**Severity: Error**

**Actionable: No**

**Description:**

a5ktest (diag240) on DPL3 (wwn=50800200000a3) failed

**Event: a5k.DiscoveryEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Discovered a new A5K called DPL4 (wwn=508002000001de30)

**Info:**

Discovery events occur the very first time the agent probes a storage device.

**Event: a5k.InsertComponent**

Component: disk

**Severity: Info**

**Actionable: No**

Description:

'disk\_front.0'(200000203718ac0) was added to A5K DPL4

**Event: a5k.LocationChangeEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Location of a5k called DPL4 was changed

## Event: a5k.RemoveComponent

Component: disk

**Severity: Error**  
**Actionable: Yes**

### Description:

'disk\_front.0'(200000203718ac0) was removed from A5K DPL4

### Info:

Luxadm cannot see the wwn of a disk, it may have been removed.

### Action:

1. Check Front Panel Module of A5k and /var/adm/messages for any errors
2. Check for minimum disk configuration
  - \* A5000 (Front: 3,6 Back: 0,3,6)
  - \* A5100 (Front: 3,6 Back:0,3,6)
  - \* A5200 (Front: 0,5,10 Back: 0,3,6,10)
3. Reseat disk in enclosure
4. Replace Disk if necessary

**Event: a5k.StateChangeEvent+**

Component: disk

**Severity: Info**

**Actionable: No**

**Description:**

'disk\_front.0'(200000203718ac0) in A5K DPL4 (wwn=508002000001de30) is now Available, status-state changed from 'Bypassed-On' to 'Ok-On'

**Event: a5k.StateChangeEvent+**

**Component: interface.iboard**

**Severity: Info**

**Actionable: No**

**Description:**

'interface\_board.B' in A5K DPL4 (wwn=508002000001de30) is now Available, status-state changed from [undefined] to OK

**Event: a5k.StateChangeEvent+**

Component: power

**Severity: Info**

**Actionable: No**

Description:

'power.2' in A5K DPL4 (wwn=508002000001de30) is now Available, status-state changed from [undefined] to 'OK'



**Event: a5k.StateChangeEvent-**

Component: disk

**Severity: Error**  
**Actionable: Yes****Description:**

'disk\_front.0'(200000203718ac0) in A5K DPL4 (wwn=508002000001de30) is now Not-Available, status-state changed from 'OK-On' to 'Bypassed\_BP:\_A-On'

**Info:**

This state of a disk in the a5k enclosure changed (luxadm)

**Action:**

1. Check /var/adm/messages for any reasons for this event
2. Enable disk via the Front Panel Module (FPM) on the A5200
- \* CLI Usage: luxadm -e enable (-F) -(a | b) (encl\_name,disk)
- \* Example: luxadm -e enable -F -a DPL4,f1
3. Replace disk if necessary

**Event: a5k.StateChangeEvent-**

Component: interface.iboard

**Severity: Error****Actionable: Yes****Description:**

'interface\_board.B' in A5K DPL4 (wwn=508002000001de30) is now Not-Available, status-state changed from 'OK' to 'Unavailable'

**Info:**

The command luxadm has reported a non-optimal condition on the A5k Interface Board

**Action:**

1. Check Front Panel Module of A5k for any errors
2. Reseat Interface Board
3. Replace Interface Board if necessary

**Event: a5k.StateChangeEvent-**

**Component: power**

**Severity: Error**

**Actionable: Yes**

**Description:**

'power.2' in A5K DPL3 (wwn=508002000007a608) is now Not-Available, status-state changed from 'OK' to 'undefined'

**Info:**

The command luxadm has reported a non-optimal condition on the A5k power supply

**Action:**

1. Check Front Panel Module of A5k for any errors
2. Reseat Power Supply
3. Replace Power Supply if necessary

**Event: ve.AlarmEvent.log**

**Component:**

**Severity: Warning**

**Actionable: No**

**Description:**

Change in Port Statistics on VE 'v1a'

**Event: ve.AlarmEvent**

Component: volume

**Severity: Warning**

**Actionable: Yes**

**Description:**

Volume E00012 on 'v1a' changed mapping ...

**Info:**

This event occurs when the VE has detected a change in status for a Multipath Drive or VLUN, usually meaning a pathing problem to a T3+ controller for changes in Active/Passive paths

1. Check T3+ for current LUN ownership. (`port listmap`)
2. Check T3+ for current LUN ownership. (`port listmap`)
3. Use `mpdrive failback` if needed to fail LUNs back to correct controller if needed

**Event: ve.AuditEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Auditing a Virtualization Engine called 'v1a'

**Info:**

Audits occur once per week

**Event: ve.CommunicationEstablishedEvent**  
**Component: oob**

**Severity: Info**  
**Actionable: No**

Description:

Communication regained with VE 'v1a'

**Event: ve.CommunicationLostEvent**

Component: oob.command

**Severity: Down**  
**Actionable: Yes**

**Description:**

Lost communication with VE/slicd 'v1a'

**Info:**

failed to execute slicd command

**Cause:**

Invalid command or slicd daemon problem.

**Action:**

1. Check the status of the 'slicd' daemon.
2. Make sure VE is booted correctly
3. Verify correct TCP/IP settings on VE
4. Replace VE if necessary



**Event: ve.CommunicationLostEvent**

Component: oob.ping

**Severity: Down**  
**Actionable: Yes**

**Description:**

Lost communication with VE 'v1a'

**Info:**

Ethernet connectivity to the VE unit has been lost

**Cause:**

VE connectivity problem

**Action:**

1. Check Ethernet connectivity to VE
2. Check the status of the 'slicd' daemon.
3. Make sure VE is booted correctly
4. Verify correct TCP/IP settings on VE
5. Replace VE if necessary

**Event: ve.CommunicationLostEvent**

Component: oob.slicd

**Severity: Down**

**Actionable: Yes**

**Description:**

Lost communication with VE/slicd 'v1a'

**Info:**

failed to execute slicd command

**Cause:**

slicd daemon problem

**Action:**

1. Check the status of the 'slicd' daemon.
2. Make sure VE is booted correctly
3. Verify correct TCP/IP settings on VE
4. Replace VE if necessary

**Event: ve.DiagnosticTest-**

**Component: ve\_diag**

**Severity: Error**

**Actionable: No**

**Description:**

ve\_diag (diag240) on ve-1 (ip=xxx.20.67.213) failed

**Event: ve.DiagnosticTest-**

**Component: veluntest**

**Severity: Error**

**Actionable: No**

**Description:**

veluntest (diag240) on ve-1 (ip=xxx.20.67.213) failed

Event: ve.DiscoveryEvent

Component:

Severity: Info

Actionable: No

Description:

Discovered a new Virtualization Engine called 'v1a'

Info:

Discovery events occur the very first time the agent probes a storage device.

**Event: ve.LocationChangeEvent**

**Component:**

**Severity: Info**

**Actionable: No**

**Description:**

Location of VE 'v1a' changed