

**Storage**  
**Automated Diagnostic Environment**  
**Event Grid**

Event Count: 247

**Event: T3message.LogEvent**

Component: MessageLog

EventCode: 1.20.1

**Severity: Warning**

**Actionable: Yes**

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**Description:**

Error(s) found in logfile: /var/adm/messages.t3 on msp0 (id=830bfa3f):

**Info:**

The t3message log agent reports the following:

Warnings and errors found in the t3 logfile

Notice and Information lines about t3 disks.

Notices about the battery.

Notices about the PCU hold time.

**Action:**

Confirm that the problem is important by reviewing the t3 logfile in more details.

**Event: a3500fc.AlarmEvent-**

**Component: battery**

**EventCode: 2.5.5**

**Severity: Warning**

**Actionable: Yes**

**Description:**

The state of 'device\_info.battery.status' on crash7\_001 is 'Failed'

**Cause:**

A battery can fail either because it is bad or has exceeded its life span. Batteries have a 2 year life span and will report errors when they are about to exceed that life span.

**Action:**

Use raidutil -c <ctd#> -B to verify battery age.

2. Use Recovery Guru to walk through the steps to replace the battery.

3. After replacing the battery, reset the battery age using  
raidutil -c <ctd#> -R against each controller.

\* You must have a LUN on the controller when you execute the command for  
the battery age to be retained.

4. Use raidutil -c <ctd#> -B to verify age.

**Event: a3500fc.AuditEvent**

Component:

EventCode: 2.10.16

**Severity: Info**

**Actionable: No**

Description:

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

Info:

Audits occur every week.

**Event: a3500fc.CommunicationEstablishedEvent**

Component: ib

EventCode: 2.11.21

**Severity: Info**

**Actionable: No**

Description:

Communication regained with A3500fc called DPL4

**Event: a3500fc.CommunicationLostEvent**

Component: ib

EventCode: 2.12.21

**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 and Power Cables.
- \* 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

EventCode: 2.13.302

**Severity: Error**

**Actionable: No**

Description:

a3500fctest (diag240) on a3500fc.da106\_004 failed

**Event: a3500fc.DiscoveryEvent**

Component:

EventCode: 2.14.16

**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

EventCode: 2.16.12

**Severity: Info**

**Actionable: No**

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**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

EventCode: 2.16.13

**Severity: Info**

**Actionable: No**

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**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:

EventCode: 2.19.16

**Severity: Info**

**Actionable: No**

Description:

Location of a3500fc called DPL4 was changed

**Event: a3500fc.RemoveComponent**

Component: controller

EventCode: 2.24.12

**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

EventCode: 2.24.13

**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

EventCode: 2.25.13

**Severity: Info**

**Actionable: No**

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**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

EventCode: 2.26.12

**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

EventCode: 2.26.13

**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: a3500fc.TopologyEvent**

Component: controller

EventCode: 2.28.12

**Severity: Warning**

**Actionable: No**

Description:

controller.a(Symbios.1T71523926) was added to brm7c6\_a35kfc

**Event: a3500fc.TopologyEvent**

Component: disk

EventCode: 2.28.13

**Severity: Warning**

**Actionable: No**

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Description:

disk.57(FUJITSU.02546441) was added to dd007\_001

**Event: a3500fc.TopologyEvent-**

Component: controller

EventCode: 2.30.12

**Severity: Warning**

**Actionable: Yes**

Description:

controller.a(Symbios.1T71523926) was removed from brm7c6\_a35kfc

**Event: a3500fc.TopologyEvent-**

Component: disk

EventCode: 2.30.13

**Severity: Warning**

**Actionable: Yes**

Description:

disk.57(FUJITSU.02546441) was removed from dd007\_001

**Event: a5k.AlarmEvent-**  
Component: backplane.fan  
EventCode: 3.5.4

**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

**Event: a5k.AlarmEvent-**

Component: interface.iboard

EventCode: 3.5.23

**Severity: Error**

**Actionable: Yes**

Description:

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

**Event: a5k.AlarmEvent-**

Component: backplane

EventCode: 3.5.3

**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: disk

EventCode: 3.5.13

**Severity: Warning**

**Actionable: Yes**

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**Description:**

'disk\_front.10' in A5K DPL2 (wwn=508002000007ca18) is now Not-Available (status- state changed from 'unknown' to 'No\_path\_found-On')



**Event: a5k.AlarmEvent-**  
Component: interface.gbic  
EventCode: 3.5.22

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

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Description:

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

**Event: a5k.AuditEvent**

Component:

EventCode: 3.10.16

**Severity: Info**

**Actionable: No**

Description:

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

Info:

Audits occur every week.

**Event: a5k.CommunicationEstablishedEvent**

Component: ib

EventCode: 3.11.21

**Severity: Info**

**Actionable: No**

Description:

Communication regained with A5K called DPL4

**Event: a5k.CommunicationLostEvent**

Component: ib

EventCode: 3.12.21

**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 Power Cables on A5k.
3. Check SAN Topology GUI to identify failing segment of the data path

**Event: a5k.DiagnosticTest-**

Component: a5ksestest

EventCode: 3.13.303

**Severity: Error**

**Actionable: No**

Description:

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

**Event: a5k.DiagnosticTest-**

Component: a5ktest

EventCode: 3.13.304

**Severity: Error**

**Actionable: No**

Description:

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

**Event: a5k.DiscoveryEvent**

Component:

EventCode: 3.14.16

**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

EventCode: 3.16.13

**Severity: Info**

**Actionable: No**

Description:

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



**Event: a5k.LocationChangeEvent**

Component:

EventCode: 3.19.16

**Severity: Info**

**Actionable: No**

Description:

Location of a5k called DPL4 was changed

**Event: a5k.RemoveComponent**

Component: disk

EventCode: 3.24.13

**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: power

EventCode: 3.25.37

**Severity: Info**

**Actionable: No**

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**Description:**

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

**Event: a5k.StateChangeEvent+**

Component: interface.iboard

EventCode: 3.25.23

**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: disk

EventCode: 3.25.13

**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: power

EventCode: 3.26.37

**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: a5k.StateChangeEvent-**

Component: disk

EventCode: 3.26.13

**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

EventCode: 3.26.23

**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.TopologyEvent-**

Component: disk

EventCode: 3.30.13

**Severity: Warning**

**Actionable: Yes**

Description:

disk\_front.1(2000002037049776) was removed from Carson (wwn=508002000001e618)

**Event: a5k.logEvent**

Component: driver

EventCode: 3.32.15

**Severity: Warning**

**Actionable: No**

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**Description:**

Found 5 'driver.SSD\_WARN' warnings(s) in logfile: /var/adm/messages on  
a5k:508002000001e618

**Event: agent.AgentDeinstallEvent**

Component:

EventCode: 4.1.16

**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:

EventCode: 4.2.16

**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:

EventCode: 4.3.16

**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:

EventCode: 4.8.16

**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:**

**EventCode: 4.9.16**

**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

**EventCode:** 4.11.31

**Severity:** Info

**Actionable:** No

**Description:**

Access to 'host1' at XX.XX.1.130 regained



**Event: agent.CommunicationLostEvent**

Component: oob

EventCode: 4.12.31

**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.CommunicationLostEvent**

Component: ntc

EventCode: 4.12.30

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

Lost Communication(oob) with Terminal concentrator

**Info:**

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

**Action:**

1. Check to see if NTC is powered on and booted properly.
2. Check Ethernet connectivity to the NTC.

**Event: agent.HeartbeatEvent**

**Component:**

**EventCode:** 4.15.16

**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

EventCode: 5.3.43

**Severity: Warning**

**Actionable: Yes**

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**Description:**

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

**Info:**

The switch is reporting a problem with the cooling fans.

**Action:**

Replace the entire switch as a FRU.

**Event: brocade.AlarmEvent**

Component: system\_reboot

EventCode: 5.3.47

**Severity: Warning**

**Actionable: No**

---

**Description:**

Switch uptime decreased on sw2 (ip=172.20.67.195) from 774396s to 524848s

**Info:**

The uptime of the switch was less than than the previous uptime of the switch.

This could indicate that the switch has been reset either by a user or loss of power

**Action:**

1. Check to see if the switch has been reset.
2. Check the power going to the switch.

**Event: brocade.AlarmEvent**

Component: sensor.temperature

EventCode: 5.3.45

**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:**

The switch is reporting a temperature alarm problem.

**Action:**

If necessary, replace entire switch as a FRU.

**Event: brocade.AlarmEvent**

Component: sensor.power-supply

EventCode: 5.3.44

**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:**

The switch is reporting a problem with the Power Supply.

**Action:**

Check switch Power Supply and replace switch as an entire FRU if necessary.

**Event: brocade.AuditEvent**

Component:

EventCode: 5.10.16

**Severity: Info**

**Actionable: No**

Description:

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



**Event: brocade.CommunicationEstablishedEvent**

Component: oob

EventCode: 5.11.31

**Severity: Info**

**Actionable: No**

Description:

Communication regained with sw1a (ip=xxx.20.67.213)

**Event: brocade.CommunicationLostEvent**

Component: oob

EventCode: 5.12.31

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

**Event: brocade.DiagnosticTest-**

Component: switchtest

EventCode: 5.13.339

**Severity: Error**

**Actionable: No**

Description:

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

**Event: brocade.DiscoveryEvent**

Component:

EventCode: 5.14.16

**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:

EventCode: 5.19.16

**Severity: Info**

**Actionable: No**

Description:

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

**Event: brocade.LogEvent**

Component: port.statistics

EventCode: 5.20.36

**Severity: Warning**

**Actionable: Yes**

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**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.LogEvent**

Component: PhysState

EventCode: 5.20.2

**Severity: Warning**

**Actionable: Yes**

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Description:

PhysicalState of port 4 changed from 'on to 'off

Info:

Monitors the PhysicalState attribute of the switch

**Event: brocade.StateChangeEvent+**

Component: port

EventCode: 5.25.35

**Severity: Info**

**Actionable: No**

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**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

EventCode: 5.26.35

**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
4. Verify port is enabled

**Event: brocade.Statistics**

Component:

EventCode: 5.27.16

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

Description:

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

Info:

Port Statistics

**Event: d2.AlarmEvent**

Component: temperature

EventCode: 6.3.51

**Severity: Warning**

**Actionable: No**

Description:

'temperature' on D2 0130030860 with serial:/dev/es/ses1 changed from '[undefined]' to Normal

**Event: d2.AlarmEvent**

Component: revision

EventCode: 6.3.42

**Severity: Warning**

**Actionable: No**

Description:

The revisionDate of esm.0 changed from 06/2001 to 07/2001

**Event: d2.AlarmEvent**

Component: slot\_count

EventCode: 6.3.46

**Severity: Warning**

**Actionable: No**

Description:

The number of slots changed from 12 to 6

**Event: d2.AlarmEvent-**

Component: power

EventCode: 6.5.37

**Severity: Error**

**Actionable: Yes**

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**Description:**

The state of 'power.0.status' on 9999001000 with serial:/dev/es/ses0 changed from 'malfunctioning\_and\_commanded\_on' to 'operational\_and\_on'

**Event: d2.AlarmEvent-**

Component: fan

EventCode: 6.5.19

**Severity: Warning**

**Actionable: Yes**

**Description:**

The state of 'fan.0.status' on 0130030860 with serial:/dev/es/ses1 changed from 'operational' to '[Undefined]'

**Info:**

A problem with the fan has been noted

**Action:**

1. Check Fan Canister LEDs
2. Replace Fan Canister if needed.

Fan LED Status

State Description

Green The fan is operating properly

Amber The fan has failed

Off The fan canister is not inserted or power is not supplied to system

**Event: d2.AuditEvent**

Component:

EventCode: 6.10.16

**Severity: Info**

**Actionable: No**

Description:

Auditing a new d2 with ID:d2.da106\_004

Info:

Audits occur every week.



**Event: d2.CommunicationEstablishedEvent**

Component: ib

EventCode: 6.11.21

**Severity: Info**

**Actionable: No**

Description:

Communication regained with D2fc called DPL4

Info:

Communications was established to a D2 unit.

**Event: d2.CommunicationLostEvent**

Component: ib

EventCode: 6.12.21

**Severity: Down**

**Actionable: Yes**

**Description:**

Lost communication (InBand(diag246.central.sun.com)) with d2 4999001000 (/dev/es/ses1) (last reboot was 2002-04-23 18:37:00): No such device or address - /dev/es/ses1.

**Info:**

InBand communication is done via utilities on the host.

**Action:**

1. Verify cables and HBAs along data path.
2. Check for proper SCSI Termination LED on back of D2.

**Event: d2.DiagnosticTest-**

Component: d2test

EventCode: 6.13.305

**Severity: Error**

**Actionable: No**

Description:

d2test (diag240) on d2.da106\_004 failed

Action:

1. Check Test Manager for details on why test failed.

**Event: d2.DiscoveryEvent**

Component:

EventCode: 6.14.16

**Severity: Info**

**Actionable: No**

Description:

Discovered a new d2 with ID:d2.da106\_004

Info:

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

**Event: d2.LocationChangeEvent**

Component:

EventCode: 6.19.16

**Severity: Info**

**Actionable: No**

Description:

Location of d2 called DPL4 was changed

**Event: d2.StateChangeEvent+**

Component: disk

EventCode: 6.25.13

**Severity: Info**

**Actionable: No**

---

**Description:**

disk.0 (SEAGATE.LT04183900) in D2 'da106\_004' (d2.da106\_004) is now Available  
(status-state changed from 'Degraded' to 'Optimal')

**Event: d2.StateChangeEvent-**

Component: disk

EventCode: 6.26.13

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

controller.a (Symbios.1T93200466) in D2 'da106\_004' (d2.da106\_004) is now Not-Available  
(status-state changed from 'Active' to 'Error')

**Info:**

A disk in the D2 array has been placed in an Error State

**Action:**

1. Check /var/adm/messages for hardware indicators.

2. Check for drive status LED on D2 enclosure

Drive LED Status

State Description

Unlit No disk drive is in the slot

Green A disk drive is present but not active

Flashing Green A disk drive in the slot is active

Amber An application running on the host identified an error and used  
the SAF-TE commands to display this LED solid amber.

Blinking amber/green An application running on the host used SAF-TE commands to  
instruct this LED to identify the disk drive.

**Event: d2.TopologyEvent-**

Component: midplane

EventCode: 6.30.29

**Severity: Warning**

**Actionable: Yes**

Description:

midplane( 9999001000) was removed from 4999001000 (/dev/es/ses1)



**Event: d2.TopologyEvent-**

**Component: esm**

**EventCode: 6.30.18**

**Severity: Warning**

**Actionable: Yes**

**Description:**

esm.0(1T11824264) was removed from 4999001000 (/dev/es/ses1)

**Info:**

The D2 is reporting a controller has been removed.

**Cause:**

This could be due to failure or service replacement actions

**Action:**

1. Check LED status on D2 unit.

**Event: host.AlarmEvent**

Component: disk\_capacity

EventCode: 7.3.6

**Severity: Warning**

**Actionable: Yes**

---

**Description:**

Detected SUNWstade at 100% capacity

**Info:**

Detected that /var/opt/SUNWstade is at or above 98% capacity by doing:  
/usr/sbin/df -k /var/opt/SUNWstade

**Action:**

1. Remove unused files/directories to free up space
2. Use a larger disk for /var/opt/SUNWstade

**Event: host.AlarmEvent**

Component: disk\_capacity\_okay

EventCode: 7.3.61

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

Detected SUNWstade back to 82% capacity

**Info:**

Detected that /var/opt/SUNWstade is now below 98% capacity by doing:  
/usr/sbin/df -k /var/opt/SUNWstade

**Action:**

1. No action is required.

**Event: host.AlarmEvent+**

Component: hba

EventCode: 7.4.20

**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: lun.T300

EventCode: 7.5.27

**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 corresponds to by reviewing it's 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

EventCode: 7.5.28

**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 corresponds to by reviewing it's 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.AlarmEvent-**

Component: hba

EventCode: 7.5.20

**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

.....

**Action:**

use 'luxadm -e port' to confirm hba status, verify if all paths are working

**Event: host.DiagnosticTest-**

Component: socaltest

EventCode: 7.13.337

**Severity: Error**

**Actionable: No**

---

Description:

socaltest (diag240) on host failed



**Event: host.DiagnosticTest-**

Component: qlctest

EventCode: 7.13.336

**Severity: Error**

**Actionable: No**

---

**Description:**

qlctest (diag240) on host failed

**Cause:**

Check the Test Manager for details on test failure.

**Event: host.DiagnosticTest-**  
Component: ifptest  
EventCode: 7.13.335

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

Description:  
ifptest (diag240) on host failed

**Event: host.PatchInfo**

Component:

EventCode: 7.21.16

**Severity: Info**

**Actionable: No**

Description:

New Patch and Package Information generated

Info:

sending Patch and Package information to Providers

**Event: host.backup**

Component:

EventCode: 7.31.16

**Severity: Info**

**Actionable: No**

---

Description:

Agent Backup

Info:

Backup of the configuration file of the agent.

**Event:** internal.AuditEvent

**Component:**

**EventCode:** 8.10.16

**Severity:** Info

**Actionable:** No

**Description:**

Auditing internal disk

**Event: internal.CommunicationEstablishedEvent**

Component: ib

EventCode: 8.11.21

**Severity: Info**

**Actionable: No**

Description:

Communication Established with internal disks

**Event: internal.CommunicationLostEvent**

Component: ib

EventCode: 8.12.21

**Severity: Down**

**Actionable: Yes**

---

Description:

Lost communication with dak-cte (wwn=508002000011d710)

Action:

1. Check the power cables on host

**Event: internal.DiagnosticTest-**

Component: fcdisktest

EventCode: 8.13.331

**Severity: Error**

**Actionable: No**

Description:

fctest on internal disk failed

Action:

Check Test Manager for details on failure.



**Event: internal.DiscoveryEvent**

**Component:**

**EventCode:** 8.14.16

**Severity:** Info

**Actionable:** No

**Description:**

Discovered a new internal disk

**Info:**

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

**Event: internal.TopologyEvent+**

Component: disk

EventCode: 8.29.13

**Severity: Info**

**Actionable: No**

---

Description:

an internal disk was added

Info:

A new disk was added in internal disk enclosure

**Event: internal.TopologyEvent-**

Component: disk

EventCode: 8.30.13

**Severity: Error**

**Actionable: Yes**

---

**Description:**

internal disk was removed

**Info:**

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

**Action:**

1. Check /var/adm/messages for any errors

**Event: message.LogEvent**

Component: warning

EventCode: 9.20.54

**Severity: Warning**

**Actionable: No**

---

**Description:**

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

**Info:**

Warnings found in /var/adm/messages

**Event: message.LogEvent**

Component: driver.LOOP\_OFFLINE

EventCode: 9.20.310

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

Found 1 'driver.LOOP\_OFFLINE' errors(s) in logfile: /var/adm/messages on  
diag230.central.sun.com (id=80aaa75a)

**Info:**

Found Loop OFFLINE message.

This could indicate that a fiber channel cable has been removed.

This could indicate troubles with a fiber channel loop.

This could also be caused by running the qlctest.

**Action:**

1. Check to see if a fiber channel cable has been removed.
2. Check for fiber channel errors.

**Event: message.LogEvent**

Component: driver.SCSI\_TR\_WRITE

EventCode: 9.20.320

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

Found 1 'driver.SCSI\_TR\_WRITE' warning(s) in logfile: /var/adm/messages on  
diag239.central.sun.com

**Info:**

Error on SCSI write.

**Action:**

1. Check for further device specific errors in log files
2. Run the appropriate device test to find faulty FRU.

**Event: message.LogEvent**

Component: driver.LOOP\_ONLINE

EventCode: 9.20.311

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

Found 1 'driver.LOOP\_ONLINE' errors(s) in logfile: /var/adm/messages on  
diag230.central.sun.com

**Info:**

Found Loop ONLINE message.

This could indicate that a new fiber channel loop has been added.

This could indicate troubles with a fiber channel loop.

This could also be caused by running the qlctest.

**Action:**

1. Check for fiber channel errors.

**Event: message.LogEvent**

Component: driver.SSD\_WARN

EventCode: 9.20.330

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

Jun 27 10:10:06 WWN:50020f23000030d8 Received 8 'SSD Warning' message( s) on 'ssd11' ( in backup:newman.central.sun.com) in 10 mins [threshold is 5 in 2 4hours] Last-Message: 'newman scsi: [ID 1

**Info:**

These warnings could indicate a faulty link.

**Cause:**

This could indicate a marginal or failing component or disk drive

**Action:**

1. Run the appropriate disk test Diagnostic to isolate the failing drive
2. The messages report the device that is posting the errors and the full path



**Event: message.LogEvent**

Component: driver.SFOFFTOWARN

EventCode: 9.20.321

**Severity: Warning**

**Actionable: Yes**

---

**Description:**

Found 1 'driver.SFOFFTOWARN' error(s) in logfile: /var/adm/messages on  
brm7c6-1.central.sun.com

**Info:**

Offline Timeout

**Event: message.LogEvent**

Component: driver.MPXIO

EventCode: 9.20.312

**Severity: Warning**

**Actionable: No**

---

**Description:**

Found 1 'driver.MPXIO' warnings(s) in logfile: /var/adm/messages on diag219.central.sun.co

**Info:**

MPxIO failover driver posts warnings when paths go offline or devices are removed from the 'fabric

**Action:**

1. Check the Topology View to see what device(s) are affected.
2. Check all cables and connections.
3. Check for other alerts that may indicate an underlying problem. (ex. Switch Ports offline)
4. The outputs of 'cfgadm -al' and 'luxadm -e port' may uncover other fabric problems.

**Event: message.LogEvent**

Component: driver.SF\_CRC\_ALERT

EventCode: 9.20.322

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

Found 1 'driver.SF\_CRC\_ALERT' error(s) in logfile: /var/adm/messages on  
brm7c6-1.central.sun.com

**Info:**

Loop CRC, DMA and Timeout Warnings

**Event: message.LogEvent**

Component: driver.MPXIO\_offline

EventCode: 9.20.313

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

Found 2 'driver.MPXIO\_offline' warning(s) in logfile: /var/adm/messages on  
diag239.central.sun.com

**Info:**

The MPxIO multipathing software has noted the path to a storage device has gone offline.

**Action:**

1. Check the Topology View to see what device(s) are affected.
2. Check all cables and connections.
3. Check for other alerts that may indicate an underlying problem. (ex. Switch Ports offline)
4. The outputs of 'cfgadm -al' and 'luxadm -e port' may uncover other fabric problems.

**Event: message.LogEvent**

Component: driver.SF\_CRC\_WARN

EventCode: 9.20.323

**Severity: Warning**

**Actionable: Yes**

---

**Description:**

Found 1 'driver.SF\_CRC\_WARN' error(s) in logfile: /var/adm/messages on  
brm7c6-1.central.sun.com

**Info:**

Loop CRC, DMA and Timeout Warnings

**Event: message.LogEvent**

Component: driver.PFA

EventCode: 9.20.314

**Severity: Warning**

**Actionable: No**

---

Description:

failure prediction threshold exceeded

Info:

Predictive failure analysis entry

**Event: message.LogEvent**

Component: driver.QLC\_LOOP\_OFFLINE

EventCode: 9.20.315

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

Found 1 'driver.LOOP\_OFFLINE' errors(s) in logfile: /var/adm/messages on  
diag230.central.sun.com (id=80aaa75a)

**Info:**

Found Loop OFFLINE message.

This could indicate that a fiber channel cable has been removed.

This could indicate troubles with a fiber channel loop.

This could also be caused by running the qlctest.

**Action:**

1. Check to see if a fiber channel cable has been removed.
2. Check for fiber channel errors.
3. Check to see if the qlctest was running at time of the failure.

**Event: message.LogEvent**

Component: driver.SF\_DMA\_WARN

EventCode: 9.20.324

**Severity: Warning**

**Actionable: Yes**

---

**Description:**

Found 1 'driver.SF\_DMA\_WARN' error(s) in logfile: /var/adm/messages on  
brm7c6-1.central.sun.com

**Info:**

Incomplete DMA Transfer.



**Event: message.LogEvent**  
Component: driver.ELS\_RETRY  
EventCode: 9.20.307

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

---

**Description:**

Found 2 'driver.ELS\_RETRY' warning(s) in logfile: /var/adm/messages on diag2

**Info:**

Target and Loop Extended Link Service Retry

**Event: message.LogEvent**

Component: driver.QLC\_LOOP\_ONLINE

EventCode: 9.20.316

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

Found 1 'driver.LOOP\_ONLINE' errors(s) in logfile: /var/adm/messages on  
diag230.central.sun.com

**Info:**

Found Loop ONLINE message.

This could indicate that a new fiber channel loop has been added.

This could indicate troubles with a fiber channel loop.

This could also be caused by running the qlctest.

**Action:**

1. Check for fiber channel errors.
2. Check to see if the qlctest was running at time of the failure.

**Event: message.LogEvent**

Component: driver.SF\_OFFLALERT

EventCode: 9.20.325

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

Found 1 'driver.SF\_OFFLALERT' error(s) in logfile: /var/adm/messages on  
brm7c6-1.central.sun.com

**Info:**

Error: socal/ifp Offline

**Event: message.LogEvent**

Component: driver.Fabric\_Warning

EventCode: 9.20.308

**Severity: Warning**

**Actionable: No**

---

**Description:**

Found 1 'driver.Fabric\_Warning' warning(s) in logfile: /var/adm/messages on  
diag239.central.sun.com (id=80c99e3e)

**Info:**

Fabric warning

**Event: message.LogEvent**  
Component: driver.SCSI\_ASC  
EventCode: 9.20.317

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

**Description:**

Found 1 'driver.SCSI\_ASC' warnings(s) in logfile: /var/adm/messages on  
crash7.central.sun.com (id=80bf4740):

**Info:**

The SCSI driver is posting warnings.

**Action:**

1. Check for further device specific errors in log files
2. Run the appropriate device test to find faulty FRU.

**Event: message.LogEvent**

Component: driver.SF\_OFFLINE

EventCode: 9.20.326

**Severity: Warning**

**Actionable: Yes**

---

**Description:**

Found 1 'driver.SF\_OFFLINE' error(s) in logfile: /var/adm/messages on  
brm7c6-1.central.sun.com

**Info:**

Warning: socal/ifp Offline

**Event: message.LogEvent**

Component: driver.Firmware\_Change

EventCode: 9.20.309

**Severity: Warning**

**Actionable: Yes**

---

Description:

The recommended firmware version for this application is ...

**Event: message.LogEvent**

Component: driver.SCSI\_TRAN\_FAILED

EventCode: 9.20.318

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

Found 1 'driver.SCSI\_TRAN\_FAILED' warning(s) in logfile: /var/adm/messages on  
brm7j4-3.central.sun.com

**Info:**

The SCSI driver is posting warnings.

**Action:**

1. Check for further device specific errors in log files
2. Run the appropriate device test to find faulty FRU.



**Event: message.LogEvent**  
Component: driver.SF\_RESET  
EventCode: 9.20.327

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

**Description:**

Jan 9 02:27:47 myhost unix: sf0: Target 0x53 Reset Failed. Ret=105 Jan 9 02:27:47 myhost  
unix: sf0: sf\_reset all

**Info:**

SF Reset

**Cause:**

This could indicate a failing driver or component

**Action:**

1. Check for correct patch and firmware levels using Revision Checking
2. Run linktest to isolate any possible failing FRU.

**Event: message.LogEvent**

Component: driver.SCSI\_TR\_READ

EventCode: 9.20.319

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

Found 1 'driver.SCSI\_TR\_READ' warning(s) in logfile: /var/adm/messages on  
brm7b16-21.central.sun.com

**Info:**

Error on SCSI read

**Action:**

1. Check for further device specific errors in log files
2. Run the appropriate device test to find faulty FRU.

**Event: message.LogEvent**

Component: driver.SF\_RETRY

EventCode: 9.20.328

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

Jun 16 10:15:23 diag231 unix : sf3: ELS 0x0 to target 0x2d retrying

**Info:**

Target and Loop ELS Retry

**Cause:**

ELS (Extended Link Services) retrying are usually caused in multi-initiator environments

**Action:**

1. Monitor messages for SF resets. Resets indicate a more severe problem.
2. Check for correct patch and firmware levels using Revision Checking

**Event: message.LogEvent**  
Component: driver.SSD\_ALERT  
EventCode: 9.20.329

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

**Description:**

Jun 27 08:45:43 WWN:50020f23000035df Received 24 'SSD Alert' message(s ) on 'ssd10' ( in backup:richie.central.sun.com) in 20 mins [threshold is 20 in 2 4hours] Last-Message: 'richie scsi: [ID 10783

**Info:**

SSD driver alert

**Cause:**

This could indicate a marginal or failing component or disk drive

**Action:**

1. Run the appropriate disk test Diagnostic to isolate the failing drive
2. The messages report the device that is posting the errors and the full path

**Event: message.LogEvent**

Component: error

EventCode: 9.20.17

**Severity: Error**

**Actionable: Yes**

---

Description:

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

Info:

Errors found.

**Event: san.LinkEvent.CRC**

Component: switch|t3

EventCode: 10.17.344

**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

EventCode: 10.17.347

**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.CRC**

Component: switch|switch

EventCode: 10.17.343

**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|a3500fc

EventCode: 10.17.340

**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

EventCode: 10.17.341

**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: host|storage

EventCode: 10.17.333

**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: switch|storage

EventCode: 10.17.342

**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: host|switch

EventCode: 10.17.334

**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.ITW**

Component: Any|Any

EventCode: 10.18.301

**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

EventCode: 11.3.8

**Severity: Warning**

**Actionable: Yes**

---

**Description:**

chassis.fan.1 status changed from OK to Invalid

**Info:**

The fan status has changed from OK to Invalid.

This indicates that the fan has stopped working.

**Action:**

1. Replace switch

**Event: switch.AlarmEvent**

Component: chassis.temp

EventCode: 11.3.10

**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>.

**Action:**

1. If necessary replace entire switch as a FRU.



**Event: switch.AlarmEvent**

Component: chassis.zone

EventCode: 11.3.11

**Severity: Warning**

**Actionable: No**

---

**Description:**

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

**Info:**

Reports changes in the zoning of a switch.

**Event: switch.AlarmEvent**

Component: chassis.power

EventCode: 11.3.9

**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: system\_reboot

EventCode: 11.3.47

**Severity: Warning**

**Actionable: No**

---

**Description:**

Switch uptime decreased on sw2 (ip=172.20.67.195) from 774396s to 524848s

**Info:**

The uptime of the switch was less than than the previous uptime of the switch.

This could indicate that the switch has been reset either by a user or loss of power

**Action:**

1. Check to see if the switch has been reset.
2. Check the power going to the switch.

**Event: switch.AuditEvent**

Component:

EventCode: 11.10.16

**Severity: Info**

**Actionable: No**

Description:

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

**Event: switch.CommunicationEstablishedEvent**

Component: oob

EventCode: 11.11.31

**Severity: Info**

**Actionable: No**

Description:

Communication regained with sw1a (ip=xxx.20.67.213)

**Event: switch.CommunicationLostEvent**

Component: oob

EventCode: 11.12.31

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

**Event: switch.DiagnosticTest-**

Component: switchtest

EventCode: 11.13.339

**Severity: Error**

**Actionable: No**

Description:

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

Cause:

Check Test Manager for details on failure.

**Event: switch.DiscoveryEvent**

Component:

EventCode: 11.14.16

**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:

EventCode: 11.19.16

**Severity: Info**

**Actionable: No**

Description:

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

**Event: switch.LogEvent**

Component: port.statistics

EventCode: 11.20.36

**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

EventCode: 11.25.35

**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

**Event: switch.StateChangeEvent-**

Component: port

EventCode: 11.26.35

**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:

EventCode: 11.27.16

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

Description:

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

Info:

Port Statistics

**Event: switch2.AlarmEvent**

Component: system\_reboot

EventCode: 12.3.47

**Severity: Warning**

**Actionable: No**

---

**Description:**

Switch uptime decreased on sw2 (ip=172.20.67.195) from 774396s to 524848s

**Info:**

The uptime of the switch was less than than the previous uptime of the switch.

This could indicate that the switch has been reset either by a user or loss of power

**Action:**

1. Check to see if the switch has been reset.
2. Check the power going to the switch.

**Event: switch2.AlarmEvent**

Component: chassis.power

EventCode: 12.3.9

**Severity: Warning**

**Actionable: Yes**

---

**Description:**

The state of 'sensor.power-supply.1.status' on diag141 (ip=172.20.67.141) is 'invalid'

**Info:**

Detected a state change in the power supply

**Action:**

1. Check the power switch
2. Check power going to switch
3. Replace power supply if needed

**Event: switch2.AlarmEvent-**

Component: chassis.board

EventCode: 12.5.7

**Severity: Warning**

**Actionable: Yes**

---

Description:

The state of 'sensor.board.2.status' on diag141 (ip=172.20.67.141) is 'invalid'

Info:

Action:



**Event: switch2.AlarmEvent-**

Component: chassis.fan

EventCode: 12.5.8

**Severity: Warning**

**Actionable: Yes**

---

**Description:**

The state of 'sensor.board.1.status' on diag141 (ip=172.20.67.141) changed from 'ok' to 'invalid'

**Info:**

**Action:**

**Event: switch2.AuditEvent**

Component:

EventCode: 12.10.16

**Severity: Info**

**Actionable: No**

Description:

Auditing a new switch2 called ras d2-swb1 (ip=xxx.0.0.41) 10002000007a609

**Event: switch2.CommunicationEstablishedEvent**

Component: oob

EventCode: 12.11.31

**Severity: Info**

**Actionable: No**

Description:

Communication regained with sw1a (ip=xxx.20.67.213)

**Event: switch2.CommunicationLostEvent**

Component: oob

EventCode: 12.12.31

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

Lost communication with sw1a (ip=xxx.20.67.213)

**Info:**

Ethernet connectivity to the switch2 has been lost

**Action:**

1. Check Power on switch2
2. Check Ethernet connectivity to switch2
3. Verify switch2 is booted correctly with no POST errors.
4. Verify switch2 Test Mode is set for normal operations
5. Verify TCP/IP settings on switch2 via Forced Prom Mode access
6. Replace switch2 if needed

**Event: switch2.DiagnosticTest-**

Component: switch2test

EventCode: 12.13.338

**Severity: Error**

**Actionable: No**

Description:

switch2test (diag240) on d2-swb1 (ip=xxx.0.0.41) 10002000007a609

**Event: switch2.DiscoveryEvent**

Component:

EventCode: 12.14.16

**Severity: Info**

**Actionable: No**

Description:

Discovered a new switch2 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: switch2.LocationChangeEvent**

Component:

EventCode: 12.19.16

**Severity: Info**

**Actionable: No**

Description:

Location of switch2 rasd2-swb0 (ip=xxx.0.0.40) was changed

**Event: switch2.StateChangeEvent+**

Component: port

EventCode: 12.25.35

**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 switch2 is now available

**Action:**

Port is online.



**Event: switch2.StateChangeEvent-**

Component: port

EventCode: 12.26.35

**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 switch2 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 switch2 configuration

**Event: switch2.Statistics**

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

Component:  
EventCode: 12.27.16

Description:  
Statistics about switch2 d2-swb1 (ip=xxx.0.0.41) 10002000007a609  
Info:  
Port Statistics

**Event: t3.AlarmEvent**

Component: log

EventCode: 13.3.55

**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**

Component: sysvolslice

EventCode: 13.3.48

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

Volume Slicing is now off!

**Info:**

The vol slice feature is possible in T3+ firmware 2.1 and above.

This option enables volume slicing, up to 16 lun per single T3 or partner pair. This also enables lun masking (HBA Zoning) features.

**Action:**

The option enable\_volslice is disabled by default. To activate the feature type 'sys enable\_volslice on' from the T3 command line.

**Event: t3.AlarmEvent**

Component: time\_diff

EventCode: 13.3.56

**Severity: Warning**

**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.AlarmEvent+**  
Component: power.temp  
EventCode: 13.4.41

**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

EventCode: 13.5.14

**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: power.battery

EventCode: 13.5.38

**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

EventCode: 13.5.39

**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.temp

EventCode: 13.5.41

**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-**

Component: power.output

EventCode: 13.5.40

**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: interface.loopcard.cable

EventCode: 13.5.25

**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.AuditEvent**

Component:

EventCode: 13.10.16

**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

EventCode: 13.11.21

**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

EventCode: 13.11.31

**Severity: Info**

**Actionable: No**

Description:

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

Info:

OutOfBand communications

**Event: t3.CommunicationLostEvent**

Component: ib

EventCode: 13.12.21

**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, Power, 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

EventCode: 13.12.31

**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 Power on array
2. Check Ethernet connectivity to the affected T3
3. Verify T3 is booted correctly
4. Verify correct TCP/IP settings on T3
5. 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: t3test

EventCode: 13.13.345

**Severity: Error**

**Actionable: No**

Description:

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

**Event: t3.DiagnosticTest-**

**Component: t3volverify**

**EventCode: 13.13.50**

**Severity: Error**

**Actionable: No**

---

**Description:**

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

**Info:**

The vol verify command compares the constructed parity with the stored parity. This implementation assumes that the integrity of the data drives is correct. The 'fix' option will update the parity drive only.

**Event: t3.DiagnosticTest-**

Component: t3ofdg

EventCode: 13.13.49

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

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

**Cause:**

The results of ofdg testing on a T3 unit resulted in a failed status.

Ofdg is an offline diagnostic utility. The failed stated is a result of a healthcheck failure.

**Action:**

1. Check Test Manager for details on why test failed.

2. Review the T3 syslog from unit where ofdg was run.

\* The complete ofdg results will be written to the unit's syslog facility

**Event: t3.DiscoveryEvent**

Component:

EventCode: 13.14.16

**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.LocationChangeEvent**

Component:

EventCode: 13.19.16

**Severity: Info**

**Actionable: No**

Description:

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

**Event: t3.QuiesceEndEvent**

Component:

EventCode: 13.22.16

**Severity: Info**

**Actionable: No**

Description:

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

**Event: t3.QuiesceStartEvent**

Component:

EventCode: 13.23.16

**Severity: Info**

**Actionable: No**

Description:

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



**Event: t3.StateChangeEvent+**

Component: controller

EventCode: 13.25.12

**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

EventCode: 13.25.13

**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: volume

EventCode: 13.25.53

**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: power

EventCode: 13.25.37

**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: interface.loopcard

EventCode: 13.25.24

**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: volume

EventCode: 13.26.53

**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.StateChangeEvent-**

Component: power

EventCode: 13.26.37

**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

**Cause:**

A PCU failure can happen due to the following reasons.

1. Power loss
2. PCU fails
3. Power switch is hit

**Action:**

1. Check Power Supply and Cables
2. Replace PCU if necessary.

**Event: t3.StateChangeEvent-**

Component: controller

EventCode: 13.26.12

**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 -dmpnstlog' from a serial port session on affected controller
- \* The output from logger will only go to the syslog facility. Review syslog on Master Controller to determine cause of failure.
5. Replace controller as indicated by the NVRAM failure code.



**Event: t3.StateChangeEvent-**

Component: disk

EventCode: 13.26.13

**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

EventCode: 13.26.24

**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.Statistics**

Component:

EventCode: 13.27.16

**Severity: Info**

**Actionable: No**

Description:

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

**Event: t3.TopologyEvent**

Component: interface.loopcard

EventCode: 13.28.24

**Severity: Info**

**Actionable: No**

---

**Info:**

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

**Event: t3.TopologyEvent**

Component: controller

EventCode: 13.28.12

**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.TopologyEvent**

Component: power

EventCode: 13.28.37

**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.TopologyEvent**

Component: disk

EventCode: 13.28.13

**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.TopologyEvent-**

Component: power

EventCode: 13.30.37

**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.TopologyEvent-**

Component: disk

EventCode: 13.30.13

**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.TopologyEvent-**

Component: controller

EventCode: 13.30.12

**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.TopologyEvent-**

Component: interface.loopcard

EventCode: 13.30.24

**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:** tape.AuditEvent

**Component:**

**EventCode:** 14.10.16

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

**Description:**

Auditing a tape 'tape1' 10002000007a609

**Info:**

Audits occur every week.

**Event: tape.CommunicationEstablishedEvent**

Component: ib

EventCode: 14.11.21

**Severity: Info**

**Actionable: No**

Description:

Communication regained with tape 'tape1'

**Event: tape.CommunicationLostEvent**

Component: ib

EventCode: 14.12.21

**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, Power 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

EventCode: 14.13.332

**Severity: Error**

**Actionable: No**

Description:

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

**Event: tape.DiscoveryEvent**

Component:

EventCode: 14.14.16

**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:**

**EventCode:** 14.19.16

**Severity:** Info

**Actionable:** No

**Description:**

Location of tape 'tape1' changed

**Event: tape.StateChangeEvent+**

Component: port

EventCode: 14.25.35

**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

EventCode: 14.26.35

**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: v880disk.AlarmEvent-**

Component: temperature

EventCode: 15.5.51

**Severity: Warning**

**Actionable: No**

---

**Description:**

The state of 'temperature.expansion.status' on dak-cte (wwn=508002000011d710) is '1Not Installed'

**Event: v880disk.AlarmEvent-**

Component: backplane

EventCode: 15.5.3

**Severity: Warning**

**Actionable: No**

---

**Description:**

The state of 'SSC.exp\_backplane.status' on dak-cte (wwn=508002000011d710) is  
'NotInstalled'

**Event: v880disk.AlarmEvent-**

Component: loop

EventCode: 15.5.26

**Severity: Warning**

**Actionable: No**

---

**Description:**

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

**Cause:**

The internal "B" loop for V880 internal drives is not installed. The "B" loop is only created with the addition of a dual port Fiber Channel card to a pci port on the back of the V880.

**Event: v880disk.AuditEvent**

Component:

EventCode: 15.10.16

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

Auditing a v880disk called dak-cte (wwn=508002000011d710)

**Info:**

Use luxadm to verify the integrity of the enclosure

**Action:**

1. luxadm probe should identify the internal enclosure name (FCloop is default)
2. Use luxadm display [enclosure name] to verify members
3. check /dev/es to see ses devices are configured and linked.

**Event: v880disk.CommunicationEstablishedEvent**

Component: ib

EventCode: 15.11.21

**Severity: Info**

**Actionable: No**

---

**Description:**

Communication Established with dak-cte (wwn=508002000011d710)

**Info:**

The internal enclosure has been discovered by the system



**Event: v880disk.CommunicationLostEvent**

Component: ib

EventCode: 15.12.21

**Severity: Down**

**Actionable: Yes**

---

**Description:**

Lost communication (InBand(diag246.central.sun.com)) with dak-cte (wwn=508002000011d710)

**Action:**

1. Check the power cables on V880
2. Run qlc test on v880 to check whether the mother board ISP controller is broken
3. Check the internal cable connection between ISP and backplane

**Event: v880disk.DiagnosticTest-**

Component: daktest

EventCode: 15.13.306

**Severity: Error**

**Actionable: No**

Description:

v880daktest (diag240) on dak-cte failed

Action:

Check Test Manager for details on test failure.

**Event: v880disk.DiscoveryEvent**

Component:

EventCode: 15.14.16

**Severity: Info**

**Actionable: No**

---

**Description:**

Discovered a new V880 called dak-cte

**Info:**

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

**Event: v880disk.LocationChangeEvent**

Component:

EventCode: 15.19.16

**Severity: Info**  
**Actionable: Yes****Description:**

Location of V880disk called dak-cte was changed

**Info:**

The disks position may be swapped

**Action:**

1. Check /var/adm/messages for more information
2. Run luxadm display wwn to check current disk status
3. Run topology snapshot to get the latest update

**Event: v880disk.TopologyEvent+**

Component: disk

EventCode: 15.29.13

**Severity: Info**

**Actionable: No**

---

**Description:**

disk.4(20000020375b251a) was added to dak-cte (wwn=508002000011d710) xx.20.67.158)

**Info:**

A new disk was added in V880 disk enclosure

**Action:**

1. Run a devfsadm -C or allow picl daemon to create devices.
2. Run luxadm display [enclosure] to verify disk is present.
3. Look in /dev/dsk and /dev/rdisk to see addition of drive.
4. Verify the disk shows up in format.

**Event: v880disk.TopologyEvent-**

Component: disk

EventCode: 15.30.13

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

disk.4(20000020375b251a) was removed from dak-cte (wwn=508002000011d710) xx.20.67.158)

**Info:**

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

**Action:**

1. Check /var/adm/messages for any errors
2. Reseat disk in enclosure
3. Replace disk if necessary

**Event: ve.AlarmEvent**

Component: volume\_add

EventCode: 16.3.57

**Severity: Warning**

**Actionable: No**

---

Description:

VLUN T16431/62573361-30304769 on b7g2-c-v1b was added

Info:

A new VLUN was created. No further action needed.

**Event: ve.AlarmEvent**

Component: volume\_delete

EventCode: 16.3.58

**Severity: Warning**

**Actionable: No**

---

**Description:**

VLUN T16431/62573361-30304769 on b7g2-c-v1b was deleted

**Info:**

A VLUN was deleted from the configuration. No further action needed.



**Event: ve.AlarmEvent**

Component: volume

EventCode: 16.3.53

**Severity: Warning**

**Actionable: Yes**

---

**Description:**

VLUN T16431/62573361-30304769 on b7g2-c-v1b was changed

**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

2. Check T3+ for current LUN ownership. (`port listmap`)
3. Use the SUNWsecfg utility on the Service Processor to fail LUNs back to the correct controller if needed.

**Event: ve.AlarmEvent.log**

Component:

EventCode: 16.6.16

**Severity: Warning**

**Actionable: No**

Description:

Change in Port Statistics on VE 'v1a'

**Event: ve.AuditEvent**

**Component:**

**EventCode: 16.10.16**

**Severity: Info**

**Actionable: No**

**Description:**

Auditing a Virtualization Engine called 'v1a'

**Info:**

Audits occur once per week

**Event: ve.CommunicationEstablishedEvent**

Component: oob

EventCode: 16.11.31

**Severity: Info**

**Actionable: No**

Description:

Communication regained with VE 'v1a'

**Event: ve.CommunicationLostEvent**

Component: oob.slicd

EventCode: 16.12.34

**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. Check Power on VE
3. Make sure VE is booted correctly
4. Verify correct TCP/IP settings on VE
5. Check for T3 failover conditions in T3 message log
6. Replace VE if necessary

**Event: ve.CommunicationLostEvent**

Component: oob.command

EventCode: 16.12.32

**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. Check Power on VE
3. Make sure VE is booted correctly
4. Verify correct TCP/IP settings on VE
5. Check for T3 failover conditions in T3 message log
6. Replace VE if necessary

**Event: ve.CommunicationLostEvent**

Component: oob.ping

EventCode: 16.12.33

**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 Power to VE unit
2. Check Ethernet connectivity to VE
3. Check the status of the 'slicd' daemon
4. Make sure VE is booted correctly
5. Verify correct TCP/IP settings on VE
6. Replace VE if necessary
7. Run ipcs(1) and ipcrm(1) to clean-up any old semaphore.

**Event: ve.DiagnosticTest-**

Component: ve\_diag

EventCode: 16.13.52

**Severity: Error**

**Actionable: No**

Description:

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



**Event: ve.DiagnosticTest-**

Component: veluntest

EventCode: 16.13.346

**Severity: Error**

**Actionable: No**

Description:

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

**Event: ve.DiscoveryEvent**

Component:

EventCode: 16.14.16

**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:

EventCode: 16.19.16

**Severity: Info**

**Actionable: No**

Description:

Location of VE 'v1a' changed

**Event: mcddata.AlarmEvent**

Component: sensor.powerSupply

EventCode: 17.3.62

**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:**

The switch is reporting a problem with the Power Supply.

**Action:**

Check switch Power Supply and replace switch as an entire FRU if necessary.

**Event: mcddata.AlarmEvent**

Component: system\_reboot

EventCode: 17.3.47

**Severity: Warning**

**Actionable: No**

---

**Description:**

Switch uptime decreased on sw2 (ip=172.20.67.195) from 774396s to 524848s

**Info:**

The uptime of the switch was less than than the previous uptime of the switch.

This could indicate that the switch has been reset either by a user or loss of power

**Action:**

1. Check to see if the switch has been reset.
2. Check the power going to the switch.

**Event: mcddata.AlarmEvent**

Component: sensor.fan

EventCode: 17.3.43

**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:**

The switch is reporting a problem with the cooling fans.

**Action:**

Replace the entire switch as a FRU.

**Event: mcddata.AuditEvent**

Component:

EventCode: 17.10.16

**Severity: Info**

**Actionable: No**

Description:

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

**Event: mcddata.CommunicationEstablishedEvent**

Component: oob

EventCode: 17.11.31

**Severity: Info**

**Actionable: No**

Description:

Communication regained with sw1a (ip=xxx.20.67.213)



**Event: mcddata.CommunicationLostEvent**

Component: oob

EventCode: 17.12.31

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

**Event: mcddata.DiscoveryEvent**

Component:

EventCode: 17.14.16

**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: mcddata.LocationChangeEvent**

Component:

EventCode: 17.19.16

**Severity: Info**

**Actionable: No**

Description:

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

**Event: mcddata.LogEvent**

Component: port.statistics

EventCode: 17.20.36

**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: mcddata.LogEvent**

Component: PhysState

EventCode: 17.20.2

**Severity: Warning**

**Actionable: Yes**

---

Description:

PhysicalState of port 4 changed from 'on to 'off

Info:

Monitors the PhysicalState attribute of the switch

**Event: mcddata.StateChangeEvent+**

Component: port

EventCode: 17.25.35

**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: mcddata.StateChangeEvent-**

Component: port

EventCode: 17.26.35

**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
4. Verify port is enabled

**Event: mcddata.Statistics**

Component:

EventCode: 17.27.16

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

Description:

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

Info:

Port Statistics