

Defects Fixed in v4.0.2c

- 16535 The chassis serial number is not stored with unit, remote dispatch of service hampered. Need addition of chassis serial number for unit identification through CLI and GUI. The chassis serial number has been added to the "Info" panel within WebTools switchview and the chassisshow command for CLI.
- 17195 A message Bloom_Bad_ID is reported during fabric instability. This is only a warning message. The BLOOM-BAD_ID error log level was changed from Critical to Warning.
- 17309 BurninStatus command does not issue correctly. A path was added for the Linux commands to allow admin login to run burninstatus.
- 17744 During Random changes from healthy to marginal the warning by the switch in fabric testing at 40 deg C. the switch status message does not include a reason. The code has been changed to add the reason string to switch status message.
- 17838 Inability to ping or telnet to switch. Data is still running but switches cannot be managed. The interrupt mitigation code was changed to use the "Smart Reset" feature of the ethernet hardware rather than disabling the MAL temporarily.
- 18128 'rpcd' processes are left in a "zombie" state because an API application connection is broken abnormally. The processes should be cleaned-up within 2 hours, but are continuing to exist indefinitely until the switch is rebooted. The code was changed so that the semaphore is cleared which the cleanup handler was waiting for.
- 18525 Slotpoweroff/Slotpoweron causes slot to lose D_ID . Code has been changed and Slotpoweroff/Slotpoweron does not cause slot to lose D_ID.
- 18967 nsdb_gepn function, which is invoked through API and MS, when writing to freed memory causes corruption. A new variable has been added to hold response CT instead of wrongly using the request CT.
- 19034 FLOGI storm causes the switch to failover due to rejecting the FLOGI on a loopback. The code has been changed to accept the FLOGI, rather than rejecting it to prevent the switch from failing over.
- 19518 E-port Link Timeout from 2109 model S08/S16 switches in a 20 switch mixed fabric.
- 19740 The switch reboots due to spurt of Loss of Sync interrupts. The code has been changed to monitor the number of LLI interrupts and if the number goes beyond the threshold, the port will be faulted.

Defects Fixed in v4.0.2b

- 16617 Web Tools crashes when ethernet cable is removed when running Netscape 4.77 on a Solaris host. Best recovery method to use if this issue is encountered is to end the Netscape session and start a new one.
- 17648 In one instance, running zoning manipulation tests simultaneously on both logical switches of a 2109-M12 resulted in a switch reboot.
- 17655 Storage device's private loop port is taking ~3.5 minutes to login to switch.
- 17819 Management server is sending incorrect WWN in the ACC for an ADISC.
- 18019 cfgsave does not issue error message when trying to save cleared zoning config when cfg is enabled.
- 18099 Frames discarded during data transfer in 9900 remote copy

Defects Fixed in v4.0.2a

- 17566 SW 2109-M12: The startup timer for http daemon (Web Tools) is too short for an 8-port card system running POST. The daemon start sometimes gives up too soon, and it is necessary to disable POST and perform a switchreboot, hafailover, fastboot, or power cycle.
- 17468 While running an overnight script of continuous switchreboot command entries, a switch can sometimes run out of shared memory resources.
- 17460 A specific type of HBA does not login as F_Port, and the switch port is faulted.
- 17227 In one case, an older zoning configuration replaced changes made an hour earlier.
- 17197 On a specific fabric, a single 2109-F32 was found trying to restart its http daemon unsuccessfully and continuously.
- 17139 API usage of Zoning: Using the API, the switch rebooted after repeated uses of Create Zone; Add to ZoneSet.
- 17047 Error message for an aborted firmware download was sent 30 minutes after failure.
- 17045 No error message displayed to indicate failed port speed negotiation / E_Port initialization.
- 17044 After firmware upgrade, name server daemon died while driving I/O, causing switch to reboot.
- 17040 2109-M12: If firmwaredownload fails on the standby CP, in some circumstances the switch may be left with two different versions of microcode on the switch partitions.
- 17038 2109-M12: Error message that standby CP failed to reboot and firmware download was aborted after firmware was downloaded to the standby CP and the standby was rebooted.
- 16983 LINIT not working properly; the switch sends a LIP(F7,F7) instead of a LIP(CD,00) in response to a LINIT (CD,00).
- 16935 Ignore the following message; it is a debugging message left in by mistake. There is no impact to the functionality of the switch.

Critical PLATFORM-FUNCT_FAIL, 1, fabsys_set_HwUnitFatal i2c bus error, can't recover

If this message is followed by an "EM, I2C_TIMEOUT" error message, follow standard troubleshooting procedure for an I2C time-out message.

- 16900 Zone member displayed as unavailable (red with X) even though it was available.
- 16863 configDownload command does not verify domain ID, allowing download of config file with incorrect domain ID.

- 16731 2109-M12: Modem ports are not initializing correctly. The modems are not getting the proper configuration strings, based on the return data, which appears to reflect a FASTER baud rate than 9600.
- 16730 "Savecore" utility does not delete core files and gives unexpected error messages.
- 16721 The switchreboot command sometimes fails to re-enable switch, and switch remains in disabled state. Related to defects 16691 and 15377.
- 16691 2109-M12: In a 16 switch fabric, CP on core fabric switch failed over. Related to defects 16721 and 15377.
- 15377 2109-M12: When the individual logical switches (switch 0 and switch 1) in a 2109-M12 chassis are rebooted nearly simultaneously - only a second or two apart - using the switchreboot command, the console port for the active CP card will report that the CP card is out of memory, and will fail over to the Standby CP card. To avoid encountering this problem, do not use successive switchreboot commands to reboot both logical switches; use the reboot command instead.
- 16718 On the Fabric Watch screen, in Web Tools, the time base for current value and last value in (every class) Fabric class, SFP state change area is not correct.
- 16636 Two switches report critical EM NULL_NULL inventory messages after receiving a reboot command via user script.
- 16635 Port was faulted and could not recover until user intervened.
- 16634 Web Tools fails to resolve switches in Fabric View. Fabric View depends on the fabricshow command to display switches. Occasionally during re-configuration IP address on switches do not get reported correctly by fabricshow command. If you do not see switches in Web Tools, log into the CLI and run fabricshow to confirm the IP addresses of the switches are displayed correctly, this will fix the display problems in Web Tools.
- 16544 Interrupting the firmwaredownload process within the first 20 seconds blocks future firmware downloads.
- 16543 Web Tools: When executing a firmwaredownload through CLI and viewing the status in Web Tools, the messaging and status bar may indicate a firmwaredownload in progress when firmwaredownload is not functioning.
- 16541 HBA not able to login to ports 8 and 9 until portdisable and portenable executed.
- 16540 2109-F32: All messaging relating to dual CP and or its architecture should be removed from Web Tools.
- 16539 The following message posted in error log: "0x27a (fabos)...Detected unstable fabric...."
- 16537 Port was non-functional with amber light blinking, but the switchshow command did not indicate fault.
- 16442 "Savecore" utility did not work properly.
- 16369 When the speed of ports in a trunk is toggled repeatedly between 1 Gbps/sec and 2 Gbps/ sec, connectivity to devices through the trunk may be temporarily lost. This defect should never occur in an production environment, since end users are recommended not

to repeatedly change the speed of ISLs in trunks. This action reduces throughput and causes the trunks to be torn down and rebuilt repeatedly. This is an intermittent problem, and occurs very rarely.

- 16319 Received critical message after rebooting, even though switch is functioning.
- 16223 Firmware download failed through CLI but Web Tools reported it as successful.
- 16199 To be consistent with the configDownload command, add a caution message to the Confirm Configuration Download dialog box.
- 16190 Fan reported as faulty but no LED was lit to indicate which FRU had failed.
- 16185 GA labeled build version string not consistent with other releases.
- 16081 The httpd died with signal 11. Error log indicated that core files were being dumped, but there are no files.
- 16063 Add switch name to banner for firmware download completion message.
- 16050 ASIC error, then port card is faulted (if labmode is 0). The switch is not returning R_RDY after receiving 16 frames, and consequently, panic on bloom error happens.
- 16048 2109-M12: When switchdisable and switchenable operations are performed while a port card is loaded with loop device traffic, the port card may report "Bloom FDET errors", causing port card to be flagged as faulty. This happens intermittently, on about one out of every fifty switchdisable operations. This is a false negative - the port card is not actually faulty and need not be replaced. To avoid this possibility, the user should stop any loop traffic before performing the switchdisable operation. If the defect occurs, the recovery procedure is to re-enable the port card. Note that this does NOT result in an unplanned disruption of application traffic, since the administrator is shutting down the logical switch, using the switchdisable command.
- 16000 2109-M12: Running a script caused active CP to hang. The Standby CP is ok. Hashow shows that active CP information not available.
- 15981 In Web Tools, you cannot "Reset" any of the selections in the "Upload/Download" tab.
- 15920 Double-clicking Route Row Values in Admin-Routing locks out all Web Tools panels with no dismiss info.
- 15862 Unit serial # label does not match internally stored Serial # on switches. WWN of switch matches internally stored SN.
- 15738 2109-M12: Rarely, an httpd daemon can die with signal 11 on a SW12000 switch. Web Tools then would not be able to restart httpd daemon.
- 15604 The switch serial # does not match the internally stored serial #. WWN of switch matches internally stored SN.ch View in Web Tools for logical SW1 then remove the ethernet cable, the error "Lost connection to the switch" displays for SW1 only.
- 15462 Switch 0 is not accessible after removing the ethernet cable during the configDownload, then replacing the cable.
- 14673 2109-F32: XML, Using 2109-F32 as proxy switch, GetObjectsByType() returns missing

attributes for Port objects of 4.0 switch.

14545 Frames are being dropped at the switch with HSV-HSV replication.

11926 Fabric OS documentation does not list SSN.

Defects Fixed in v4.0.2

- 16852 Switch RPCD and ZONED daemons core dumped by API application.
- 16565 Imbalance problem due to routing.
- 16552 Port Blade deemed as faulty with the following message: Switch: 1, Critical BLADE-EG_FAULT, 1, ASIC driver detected Slot 7 port 40 as faulty (reason: 13).
- 16545 Discarded frames during data transfer in 9900 remote copy.
- 16504 There is a limit loop initialization fault, such that when the host reboots the 2109-M12 crashes.
- 16385 Switch not sending enough LIPs to transition from AL-PA sequence to Old_Port.
- 16383 Switch is not sending RSCN, after target device registers to name server with RFT_ID.
- 16292 Switch crashed and rebooted.
- 15984 Switch panic when removing cables.
- 15835 portcfgspeed command variable inconsistency.
- 15584 Problem with firmwareDownload instructions.
- 15393 2109-M12 Apache Web server vulnerability.
- 15391 2109-M12 Apache Web server vulnerability.
- 15380 SNMP infinite loop response to connUnitLinkUnitId query. If exactly one device is plugged into a 2109-M12 and you query the FC Management MIB's connUnitLinkUnitId field, it enters into a never-ending stream of identical responses.
- 15379 2109-M12 Switch: 0, Critical PDM-SSPFail, 1, Snapshot to primary failed (-1) error; explain error condition.
- 15000 ASIC failure specific to the turboramtest command.
- 14999 The switch continues to send the OLS/NOS.
- 14998 TotalStorage Specialist gives cryptic messages during failed firmwaredownload (CP1:.Null).
- 14997 Sig =11 CoreDump seen after Fabric Daemon died on 2109-M12 edge switch.
- 14996 Sig =11 CoreDump files missing after HA failover.
- 14995 Sig =11 seen, Nameserver and Zone Daemon died on restart of daemons.
- 14994 Firmwaredownload fails to download firmware after FTP server down/restored.
- 14990 Changing switch name causes all 2109-M12 with hosts attached to failover.

14898 Unnecessary link reset causing I/O between sw0 and sw1 to pause for 70 seconds.

14880 TotalStorage Specialist firmwareDownload from and to V4.0.0 <-> V4.0.0a,b,c does not work.

16710 firmwareDownload help text does not accurately describe command switch function.

16579 Switch exception, no element available.

16338 Principal switch selection fails over remote switch devices.

15645 There is no configshow output when a supportshow command is issued on 2109-M12.

15426 The filterportshow command during switchreboot command caused kernel panic.

15342 emd panic while doing slotpoweroff/slotpoweron on all blades overnight.

15126 firmwaredownload command fails after issuing a false server IP address.

15114 firmwaredownload from v4.0.0d to v4.0.0c had file system corruption after reboot with new CP card.

15003 WWN is not displayed in the TotalStorage SpecialistGUI representation of a 2109-M12 switch.

15002 HALT modified units are not reporting digital smart features correctly.

14896 cfgenable takes more than 1 minute and 30 seconds to finish.

16700 Control processor card host names not persistent across reboots.

16147 Fabric Watch (fwmailcfg) created bogus email recipients.

16130 Diagnostic summary and error messages need rewording.

15072 Wrong data byte #3 displayed as pinging Host's FCIP address.

15051 Tool tip for the "Reset" button is incorrect.

14891 API: Intermittent Problem: Switch rebooted automatically.

14887 API: Error print message printing offending IP in reverse order.

14881 Help command prompts should auto-exit when all help commands have already displayed.

Defects Fixed in v4.0.0d

- 13732 There is an extra FRU state sent when blades are pulled and re-inserted
- 13733 FRU parameters do not go live after a configdownload and a fwconfigreload.
- 13734 After a configDownload the fabric watch settings do not take affect w/o telnetting to each switch and running firmware configReload.
- 13813 Fabric Watch exits when the switch is rebooted.
- 13950 Fabric Watch reports positive number as negative number
- 13581 Create an SNMP trap when status change from REDUNDANT to NON-REDUNDANT
- 13502 Running script that does firmware download and reboot to the CP, causes XFS file system corruption.
- 13805 Time value not in sync after CP insertion
- 13824 "date" changes on Standby CP should not be allowed.
- 13882 Soft upgrade commit Available But Failed To Execute; "Wrong Token" Seen On Active CP.
- 12831 CLI Timeout is required to be part of the configuration file
- 12958 If the ports of a 2 ports trunk group are set to LE mode, then traffic stops on one of the links
- 13012 kSWD Critical error messages are not logged in the persistent error log.
- 13034 Messaging Not Seen For Changes In Trunking Status.
- 13247 Many misspellings in the Fabric O/S command help pages.
- 13600 v4.0.0b ConfigUpload Creates Duplicate Boot Information In Configuration Files.
- 13604 All Licenses Erased After Config Download To Switch.
- 13679 Trunk Port State Machine Fails To Reset; Blade Must Be Reinitialized.
- 13843 SCALABILITY: Downloading firmware causes standby CP blades to reboot itself continuously.
- 13890 Switch time improperly used for time out calculation
- 13952 scnRegister() fails when registered and deregistered for port SCN
- 14068 During soft upgrade start, the 2nd-time active CP (running v4.0.0d_rc2) will reboot due to losing heartbeat
- 13951 SNMP is only sending offline trap for only sending offline traps and not sending online traps after a master trunk is pulled. When master port is removed, only offline trap is sent

- 12901 Running loop on ipaddrset script caused webd:1 (pid=818)!!! Signal=11 and segmentation fault later.
- 13261 Does Not Display Persistent Logs After Errclear.
- 13884 Message Bar In Upload/Download Tab Show Incorrect Messages While Loading Firmware.
- 13921 java.lang.NullPointerException error
- 14005 TotalStorage Specialist crashed after switchDisable followed with "Refresh"
- 14047 Name Server Table reports incorrect COS when the FCP4s type field is empty.
- 14077 "Alt-x" keys don't work
- 13930 Scalability - software watchdog kills nsd because it's too busy to respond, causing fail over
- 13812 Display lighted LEDs on the standby CP in the TotalStorage Specialist Switch View for the 2109-M12
- 14005 TotalStorage Specialist crashed after switchDisable followed by "Refresh".
- 14010 "Unexpected Signal: 11" error message after click on Refresh View button following switchDisable.
- 14194 Click on the Switch Admin icon, the up/down arrows are not displayed properly and the user is unable to tell which arrow is up and which is down.
- 14133 Toggle the Fabric View of a large fabric (18 switches) between max/min mode would cause the Netscape 4.77 browser to hang.
- 14012 "java.lang.IllegalArgumentException: Identifier not found" error message in the java console window.
- 14198 Incorrect status bar message when the Protocol field is highlighted in the Upload/Download tab.
- 14052 IOException in FindCookieURL error message in the java console on a Solaris 8 with plug-in 1.3.1_04.
- 6620 Unable to drag members from selection list to the right hand side box for Port Throughput, Blade Aggregate Throughput, SID/DID Performance, all SCSI performance, ALPA Error graphs.

Defects Fixed in v4.0.0c

- 10963 Once a while, nscamshow get "SHM error -- unable to get SHM, size = 28794"
- 11784 Input/output not equally distributed when moving across e_ports
- 11998 Firmwaredownload, configdownload, and configupload from TotalStorage Specialist require a password for the FTP user v4.0.0a
- 12760 WARNING ZONE-ZONEGROUPADDFAIL, 3, WARNING - port 10 Out of CAM entries
- 12803 Zoning administration allows users to exit without saving; the result is outstanding transactions to the interface.
- 12905 Need better messages when a configupload from the GUI fails. The error message gives no information.
- 12922 Parameters are not applied on the 12k after a config download
- 12961 The information displayed when the Hi Avail button is clicked is incorrect
- 13028 No warning is given to a user who tries to exit from the Zoning GUI if changes have been made.
- 13056 Scalability (ML/GS configuration): Error message "Error ZONE-IOCTLFAIL, 2, ioctl(portZoneGroupAdd) failure... keep displaying on the switch console.
- 13071 I2C FATAL: regExtSta=0x60, regSCL=0xd 0x3ce (fabos): Switch: 0, Critical PLATFORM-FUNCT_FAIL, 1, fabsys_set_HwUnitFatal i2c bus error, can't recover.
- 13123 Host unable to see storage after moving ISLs
- 13124 The nameserver has an extra entry.
- 13125 The output from the fabricshow command is incomplete
- 13138 OEM: TRU64 host lost active path to HSG80 storage.
- 13170 SUS can enter a lockout state when terminating FTP services just after SUS starts on standby CP.
- 13206 The example steps described in the "Softupgradestatus" man page are not accurate.
- 13209 The supportshow command does not contain "errdump -p" command.
- 13211 ifModeSet should have warning messages when used in telnet session.
- 13247 Many misspellings found in the FabOS command help pages.
- 13285 Many misspellings found in System Control and Diag command help pages.
- 13299 Persistent Error Log not cleared in /mnt partition by errclear -p command, exposing old data after fwdl.

- 13305 Emulex HBA's FLOGI got loopback
- 13308 Softupgradestart failed to load new firmware to standby CP secondary flash partition.
- 13309 TotalStorage Specialist did not timeout for failed firmwaredownload, no error messaging.
- 13312 Port fix of defect 13025 from Main branch to to b, c, and GS branch.
- 13315 IPC Failure (rc = -5) Errors Not Logged.
- 13316 Softupgradecommit does not provide user with status while running.
- 13318 TotalStorage Specialist firmwaredownload status bar continues to progress during a failure.
- 13319 Power down sequence defined by power off list not functioning properly.
- 13324 FDET error (mini-buffer state mismatch) causing blade faulted in SIA lab when performing GS testing.
- 13356 Name Server error - nsallshow only shows attached devices.
- 13387 Setting "Select Alarm Level to Custom" does not work using TotalStorage Specialist.
- 13523 GS After fwdl and reboot of switches on the Silver and Gold rig, firmwarecommit starts automatically.

Defects Fixed in v4.0.0b

- 10962 Time Awake & Time Alive parameters can be off by 1 or 2 days for some FRUs
- 11748 loopPortTest diagnostic command.
- 11751 There is no visual indication (No Amber light) on the 2109-M12 to show conflicting port speed between ISLs.
- 11796 TotalStorage Specialist status screens can take up to 5mins to update its status area after a FRU has been added/removed.
- 11827 TotalStorage Specialist was consuming 100% client CPU for over 10 minutes with large (124k) zoning configurations.
- 11854 CP Blade had "Faulty" status after CP failover performed.
- 11988 Software upgrade process is interactive with admin logon.
- 12083 Switch does not provide persistent error logging across power cycles.
- 12134 Need to improve some cryptic fabric event entries.
- 12135 Need firmwareshow command to show code level for all CPs and all partitions.
- 12207 Diagnostic backplanetest fails on the power cycle test.

12334 A process can keep the I2C bus access for too long.

12402 TotalStorage Specialist client memory usage was high during validation of data after saving a zoning configuration.

12407 Blade faulted.

12408 Port Fault seen on one blade port (S4, P-1(37)) after a power cycle.

12410 During continuous power-cycle testing, an I2C time out was observed in the error log.

12436 Core dump message seen for the SNMP daemon after switchreboot command. Msg: "Application 'nsd'(pid 3553) got exception 11. will dump core in directory /core_files/nsd"

12448 Switch Management view window is not re-sizeable and the vertical scroll bar function does not function.

12449 Fabric Events view, the count is always 0 for events related to the 2109-M12

12519 2109-M12 switch reports a value of '0' for MIB entry named 'connUnitNumports'.

12522 Continuous reboot seen after chassis was power cycled.

12605 2109-M12 switch reports a value of '0' for MIB entry named 'connUnitNumports'. API needed to get number of actual ports in a switch.

12615 Msg: "Kernel access of bad area, sig: 11" occurring in ASIC driver.

12656 Blade initialization failure on slot 4.

12661 Msg: "Critical PLATFORM-FUNCT_FAIL, 1, fabsys_set_HwUnitFatal i2c bus error, can't recover" seen.

12679 2109-M12 switch hung when trying to telnet into it.

12702 MIB instance '.iso.org.dod.internet.snmpV2.snmpModules' returns write-access community strings with read-only community string get request.

12705 Fabric services lost due to fabric daemon dying. Generated a "Sig=11" core dump.

12707 Core dump missing after "Sig = 11" Message.

12802 CP fault observed during firmware download

12803 Zoning administration allows users to exit without saving, resulting in outstanding transactions.

12804 The "Savecore" FTP transfer function doesn't allow a user to transfer to the default FTP directory path.

12805 Error handling not seen for a failed firmware download process (soft_upgrade).

12854 There is no way to hard-set the Ethernet port speed or duplex setting.

12890 SNMP functions swFwUpgrade, swCfUpload, swCfDownload need to be disabled.

- 12909 Need to refine severity and establish persistence for RPCD error_log messages.
- 12958 If the ports of a 2-port trunk group are set to "LE mode", then traffic stops on one of the links.
- 13012 Critical error messages are not logged to the persistent error log.