

## Firmware 3.43.14 Release Notes

Version 3.43.14, 09-MAY-2002

### Problems Resolved:

- CR2362: Request from Tivoli to change the way data is processed on receiving ILI status from tape drive.
- CR2391: Third party reserve/release should support both gateway' wwn and gateway's port wwpn as the long ID.
- CR2105: Corrected cnfDBlock semaphore errors after reboot. This is reported when semTake(cnfDbSem) attempts to use a semaphore ID that is not valid.
- CR2235: add WWN change support. Added CLI commands: wwnGlobalSet(), wwnGlobalClear(), wwnPortSet(ispId), wwnPortClear(ispId). The unit will be rebooted after running these commands.
- CR2287: SNC loses medium changer after power cycle. Added Log Messages to show progress. Extended Scan time to 7 minutes to allow for rediscovery of devices that may have been removed because they were busy initializing. Also added log messages to show when scanning is complete.

Version 3.43.13, 15-FEB-2002

### Problems Resolved:

- CR1893: EOMb Issue : Running a specific test case on the AIX operating system End of Media Early warning was not being properly reported to the host.
- CR1946: Bytes Read not Equal to Bytes Written: This condition occurs when running specific test cases on two drives on the same SCSI channel simultaneously on the AIX operating system. Corrected by doing READ commands near end of media in one part as opposed to two parts.
- CR1994: Corrected a problem found in properly starting the SCSI Scan task for devices that are slow in coming online.
- CR2052: fcRescan does not find all LUNs after a rescan.
- CR2175: Failure on a READ: Running specific tests on the AIX operating system the system would hang on a READ command when near End of Media. Corrected with the fix for CR1946 "by doing READ commands near end of media in one part as opposed to two parts".

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CR2223: reserveShow command gets an exception when called in supportDump.

CR2233: Vendor unique command (0xC0) does not function properly with SCSI attached host.

### Other Changes:

Added a new function as part of CR1994. getScsiScanTime that allows the user to see what was set by the command setScsiScanTime in a previous implementation. The getScsiScanTime function was also added to the supportDump.

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### Release notes 4.43.12

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Version 3.43.12, 30-JAN-2002

### Problems Resolved:

CR2185: Request configurable change to Inquiry Device Type field for Invalid Device

CR2195: Appliance traps Mode page 0E for LUN devices when data mover is disabled

### Other Changes:

None

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Version 3.43.11, 03-JAN-2002

### Problems Resolved:

CR2113: EOM condition results in incorrect residual returned on block-to-stream with offset segment for T10 copy command.

CR2145: The SCSI scripts do not correctly handle a select without disconnect failures; seen with HP SCSI hosts and AKAI hosts.

CR2020: Inquiry for VPD page code 0xC0 to Crossroads 4250 results in FC protocol errors.

CR2060: Failure to clear reservation if the target device responds with check condition unit attention.

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### Other Changes:

None

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Version 3.43.10, 19-DEC-2001

### Problems Resolved:

- CR2015: Added new CLI command, mapShowDevIden, to display Inquiry page 83 data we got. Used for debugging E4 target descriptor with data mover.
- CR2034: Fixed failure of xCopy command (introduced in 3.43.06) because the host application is holding a reservation on the tape drive.
- CR2036: Fixed problem where MIB does not report the proper WW Port Name.
- CR2078: Changed display of deviceID from hex to decimal in saEnable function.

### Other Changes:

None

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Version 3.43.09, 19-NOV-2001

### Problems Resolved:

- CR1994: Added CLI command to allow user to set SCSI scan duration.
- CR2011: CLI command reserveShow now displays WWPN of the Initiator which holds the reservation.
- CR2012: LOGO event from the Initiator now clears its reservation on the devices.
- CR2016: Global logout now aborts the task sets and clears the reservations for all Initiators on the FC port.

### Other Changes:

Upgraded to Qlogic firmware version 2.01.37 (created 10-31-01).

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Version 3.43.08, 12-NOV-2001

### Problems Resolved:

- CR1665: Added target descriptor 0xe4 support to Data Mover.
- CR1749: Added automatic removal of devices after an FC port in Initiator mode has been down for a period of time. The default interval is 5 seconds. Service port commands fcLoopDownTimerSet() and fcLoopDownTimerGet() are provided to set up and read the interval.
- CR1854: Fixed the direction conflict between FCP\_CMND flags and CDB.
- CR1893: EOM Early Warning not being reported through SDG.
- CR1901: FCP\_DL < CDB requested length is now handled in all scenarios.
- CR1934: Too much data returned on req sense. The buffer and the frame returned is now the size of the actual data and not just what is available in the CDB request.
- CR1948: Ethernet no longer hangs during high fast path IO.
- CR1967: Added mode sense page 0x0e support for tape drive.
- CR1971: Improved the error handling of the bring up process and prevented the unit from being placed in a vulnerable state by the user.
- CR1982: Improved back up speed of 1 GB of data.
- CR1998: Verify device (0x07h) segment for T10 support doesn't process the TUR bit.
- CR2000: Restarting SCSI causes a fault if given an out of range SCSI Channel Number.

### Other Changes:

None

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Version 3.43.07, 17-AUG-2001

### Problems Resolved:

- CR1797: Check Condition (Power On Reset) occurs when other initiators log-in.
- CR1891: Inquiry VPD Page 83 data is not unique for each LUN.
- CR1895: Customer wishes to see the 32 of bytes of inline data in be inline to stream segment and 32 bytes of data that is discarded in stream to discard segment.
- CR1898: When doing a deleteScsiAssign for a channel that no longer is in the box an error is reported.
- CR1899: setScsiAssign causes an "E R R O R - F A U L T I N G" condition when no comment is entered.
- CR1900: SCRIPT stopped error 66h message. This occurred when CBuf's were not available for an incoming command.
- CR1904: Discarded data for Copy stream to discard segment is held when the held buffer already exists.
- CR1908: Disable DPP test on the secondary bus when a P2M2 is present.
- CR1916: ArcServerless backup on inexcats segment.

### Other Changes:

None

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Version 3.43.06, 27-JUL-2001

### Problems Resolved:

- CR1726: Speed improvements for 'snmpwalk' and 'snmpgetnext' commands.
- CR1731: Fixes for using a timeserver and for using Daylight Saving Time.
- CR1821: Job failed due to a target abort and a SCSI buss reset.
- CR1850: Improvements to third party reserve/release in Server Free environment.

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CR1863: Speed improvements for using VPM from SAN Director.

CR1870: Added new command, showTimeHost, to display name of the timeserver.

### Other Changes:

None

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Version 3.43.05, 09-JUL-2001

### Problems Resolved:

CR1714: More fixes for overlapped Nexus when an ABTS is sent from the Host to the San Data Gateway.

CR1824: Fixed link statistics reporting as Unavailable when a port is connected point-to-point to a switch.

### Other Changes:

None

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Version 3.43.04, 06-JUL-2001

### Problems Resolved:

CR1714: Fixed overlapped Nexus when an ABTS is sent from the Host to the San Data Gateway.

CR1750: Allow Mode Sense to devices with reservations.

CR1784: Added support for Data Mover 0x0F Segment Descriptors.

CR1810: Added support to return proper check\_condition values when both read and write bits are set in FCP\_CMND.

CR1822: Added information for scsin3 HTH troubleshooting enhancements.

CR1826: Reservation conflict should not be returned for READ BLOCK LIMITS or REPORT DENSITY SUPPORTED for tape devices for SCSI-3 SPC-2 support.

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CR1844: Improved reliability of Data Mover data during CopyStreamToDiscard.

### Other Changes:

Restart commands that may be stuck in the SCSI SCRIPTS when in target mode.

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Version 3.43.03, 22-JUN-2001

### Problems Resolved:

- CR1822: Add troubleshooting enhancements to scsin3 driver for target mode (log a message on a HTH timeout SCRIPTS restart).
- CR1804: Disabled ISP soft reset in fcHaltCtrl so as to not wipe-out ISP state in the debug dump
- CR1782: fix data missing in supportdump when using service port.
- CR1770: Set the USE (Ultra SCSI Enable) BIT properly in the tar875\_sync\_negotiate function if Ultra is negotiated.
- CR1764: Created new address test to run in the background. Modified the taskDma() routine to use interrupt completion with semaphore synchronization. Modified the amemTestTask() to base run background tests on timings specified by a global structure. Added address check to the ddfc() routine called after tape transfers.
- CR1736: Use 06h to abort non-tagged commands
- CR1721: SNMP always returns scsiMapComment field blank
- CR1689: Added retransmission of status when SRR requests retransmission of data at offset for end of data and status has been sent.
- CR755: Remove SCSI devices dynamically

### Other Changes:

None

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Version 3.42.12, 18-JUN-2001

### Problems Resolved:

- CR1767: Firmware 3.42.10 telnet problems and periodic reboots.  
Fixed dma problem in memory test routines with Parity-DDFM  
by using direct comparisson instead of DMA transfer.

### Other Changes:

None

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Version 3.42.11, 15-JUN-2001

### Problems Resolved:

- CR1721: SNMP always returns scsiMapComment field blank.  
Brought in fix from main line tree.
- CR1767: Firmware 3.42.10 telnet problems and periodic reboots.  
Fixed semaphore problem in memory test routines.
- CR1764: Review IBM RAS Requirements.  
Added address test to end of ddfc() routine so that it is called  
at the end of each tape transfer.

### Other Changes:

None

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Version 3.43.02, 31-MAY-2001

### Problems Resolved:

- CR1589: Added AS/400 to setHost help text.
- CR1612: Integrated 25 vendor unique commands for HP.
- CR1663: Fixed EOM sense data not being received properly by  
ARCserve 2000 with FC port in standard NT mode.
- CR1664: Improved the performance of copy from-stream-to-block and  
copy from-block-to-stream that has cat data.



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- CR1674: Fixed SCSI anomalies with Router talking to DLT8000.
- CR1680: Added host types(linux, FCR-2, PV-136T-FC) that listed in SAN Director to the host type list.
- CR1682: Added cleLog in function scsintCdParse after command finish.
- CR1684: Disallowed setting FC Port Host Type to "switch".
- CR1697: Added global scsiBurstDepth to be used as a run-time flag and setting for modifying the SCSI burst depth on PCI bus. Modified the behavior of the SCSI chips to use the optimized PCI Memory Read Multiple command to improve performance with the ECC-DDFM memory card.
- CR1699: Added retries on a SCSI failure in case a Changer or some other device hasn't had ample time to respond before failing the command.
- CR1713: Fixed problem with not checking the long bit in the read position command.
- CR1717: Fixed Data Mover not discarding data properly for T10 support stream-to-discard-segment.
- CR1718: Cleared Inquiry data INQ\_OPTION\_CMDQ bit when device type is changer or tape.
- CR1720: Fixed premature termination of device scan when Symmetrix replies with "LUN not supported" when missing LUN is encountered.
- CR1732: Fixed firmware returning QUEUE\_FULL to Brocade switch which prevented targets from being discovered by Brocade.
- CR1796: Command abort issued by SCSI attached host is not handled properly.

### Other Changes:

Incorporated latest versions (p0133) of ipost and spost.

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Version 3.43.01, 27-APR-2001

### Problems Resolved:

- CR563: Post event when number of initiators exceed maximum allowed.
- CR1588: hardwareConfig now clears out entries for empty PMC slots.
- CR1624: If George found then initialize ECC control and scrub memory.
- CR1627: Added DDF tests for George.
- CR1641: Wrong RESID on recovery from Variable Tape Read
- CR1646: Added display of size and parity status of SIMMs to showBox.
- CR1649: Exceeding number of allowed initiators on an FC target-mode port could result in a firmware crash.
- CR1657: Add event trap for ECC errors.

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### Other Changes:

- Added AS/400 support for disks.
- Add parity test for DDFM card.
- Enabled the new SCSI driver, SCSIN3.
- Added support for HP vendor unique commands.
- Enhanced map library.
- Added support for AS/400 SKIP MASK.
- Added support for ABORT\_TASK.
- Modified SCSI reset code to specifically check for SCSI targets and not just initiators.
- Added support in SNMP MIB for the following events: ECC Memory Error, Firmware Upload Completed and Maximum FC Initiators Exceeded.

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Version 3.42.08, 18-APR-2001

### Problems Resolved:

- CR1619: Reserve command does not return Status

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Version 3.42.07, 4-APR-2001

### Problems Resolved:

- CR1615: Display of number of blocks shows negative if above 1 TB
- CR1532: fcLoopReport doesn't show current state in pt-to-pt mode
- CR1449: Can not read and write to 3590 tape device on AS400 (SCSI Host Attach)

### Other Changes:

- CR1578: Disable FC Reset prior to dump in fcRestartWithDump  
Add to supportDump: uptime, flush output  
Fix problem in T10 X-Copy, copyStreamToStream when DC is 1
- CR1522: SRS synchronizaion depends on Data Mover Being Licensed

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Version 3.42.06, 4-APR-2001

### Problems Resolved:

- CR1606: Overlapped command reported, Mode Sense following Reserve on 3590 FC drives
- CR1600: Error recovery fault on dropped data frame on Variable Read near EOT
- CR1580: Modify cleShow, and cleShowAll to display oldest entry first, newest entry last
- CR1576: GUI displays speed for LTO devices as "unknown"
- CR1573: Cannot change Termination when Channel Mode is set to Target mode
- CR1570: Data Path failure event does not generate a Trap
- CR1536: FTP Allows access without valid login
- CR1491: FeatureEnable tells you the license is invalid, then tells you that it is valid
- CR1477: Data Miscompare with 3590-FC drives
- CR1352: Commands from HA accepted, but not passed up to SDG firmware.

### Other Changes:

- CR1587: SNMP issue inquiry VPD page c2 to downstream srs device.
- CR1578: Improvements requested to the supportDump function.
- CR1556: Changes to support HP AutoRaid
- CR1149: add checking srsScanning in sendRestartTrapTask

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Version 3.41.38, 16-Mar-2001

### Problems Resolved:

- CR1216: Fixed a problem with the elTest that would cause the gateway to fault requiring a reboot to recover.
- CR1408: Add processing secret parameter value 99 for function loggerDumpCurrent which will display all current record since last boot. Function supportDump now display all log record since last boot.

### Other Changes:

Corrected bug that set all trap destination UDP ports to 162 upon reboot  
SNMP Traps are now enumerated in the SANMgr MIB using the RFC 1215 TRAP-TYPE construct. Management applications must explicitly request traps that match the descriptions in the MIB when they register to receive traps; the MIB document contains the details.  
Data mover now supports T10 spec.

## **Firmware 3.43.14 Release Notes**

Improvements to 'supportDump' command.  
Modified diagBoot to load the diagnostic bootline with a boot device of  
lnPci with an ether address of 10.0.0.1.

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