



Release Notes

Product	Scalar 50® and PX5xx® V51
Web Browsers (Remote Web Client)	Microsoft® Internet Explorer 6.0 and later versions and Mozilla Firefox™ 1.0.6 and later versions
Date	August 2008

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Purpose of This Release

Scalar 50 and PX5xx (V51) includes several new features and enhancements that extend its capabilities. These release notes describe these new features and enhancements, as well as currently known issues and issues that were resolved for this release of the product. These notes also provide drive and auxiliary firmware compatibility information. Visit <http://www.quantum.com> for additional information about Scalar 50 and PX5xx and previous releases.

New Features and Enhancements

- Scalar 50 and PX5xx (V51) includes the following feature for this new product launch.

Caution: With the release of firmware V51, the media changer's Fibre Channel (FC) World Wide Port Name (WWPN) has been changed to be consistent with other Quantum Scalar libraries and FC target devices. In the prior firmware release, the WWPN was equal to the World Wide Node Name (WWNN). In V51 the WWPN is now a value of one greater than the WWNN. The media changer's World Wide Port Name value is reported on the Remote Management Pages under **Setup -> SCSI/Fibre -> Connectivity/Fibre**. When upgrading from a prior firmware revision, this change may result in library not being available to the host in FC SAN configurations that employ persistent binding and/or zoning in FC switch(es). An update to persistent bindings settings or rezoning of the FC switch(es) may be required.

- Added support for the HP LTO-4 Half Height tape drive (SAS).

Compatibility Matrix

The following table provides information about library and tape drive firmware compatibility with Scalar 50 and PX5xx (V51) This information is current as of the publication date of these release notes.

Scalar 50 Compatibility Matrix

Component	Firmware Version
Library Firmware	V51
TC2201 iSCSI Bridge	6.1.30
Drive Types	
Quantum DLT-S4 (SCSI)	V42
Quantum DLT-S4 (Fibre)	V42
HP LTO-3 (SCSI)	G63Z
HP LTO-3 (Fibre)	L63Z
HP LTO-4 (SCSI)	B44Z
HP LTO-4 (Fibre)	H44Z
HP LTO-4 HH (SAS)	U25Z

Component	Firmware Version
Quantum LTO-3 HH (SCSI)	V20766316-900
Quantum LTO-3 HH (Fibre)	V20776316-700

PX5xx Compatibility Matrix

Component	Firmware Version
Library Firmware	V51
FC1202 Fibre Channel bridge	5.6.2h

Drive Types

Quantum SDLT 320	V96
Quantum SDLT 600 (SCSI)	V53
Quantum SDLT 600 (Fibre)	V53
Quantum DLT-S4 (SCSI)	V42
HP LTO-2 (SCSI)	F6CZ
HP LTO-3 (SCSI)	G63Z
HP LTO-3 (Fibre)	L63Z

Resolved Issues

This release of Scalar 50 and PX5xx (V51) firmware resolved the following issues:

Change Request Number	Service Request Number	Description
PCR 3929		Failure B50B on PX502 during Z diagnostic test (di test 7).
PCR 4576		Improve message if user hits remove when no partition selected/available.
PCR 4691		Retrieval of FA logs should require the library to be offline.
PCR 4697		Queued SCSI Unit Attentions are not always returned to all affected initiators.
PCR 4739		No critical event was generated when there was a failure to read the RTC which caused the Remote Management Pages and logging to be out of sync.
PCR 9575		Add Tape Alert log to FA log similar to the SuperLoader3 and PX720 (logs TA's per media).
PCR 9592		Modify Library code to recognize additional drive SCSI status messages.

Change Request Number	Service Request Number	Description
PCR 14723		If there is a miss-match between the Cartridge Memory (CM) and the element type or barcode, the system will accept the element type.
PCR 14724		Address issues found in Cartridge Memory (CM) reads resulting in invalid densities after the drive is swapped.
PCR 14733	SR: 355614	With a bad tape drive, failing unload is taking 45 minutes and it should be 16 minutes.
PCR 16219		Improved the error message reported in the Remote Management Pages when the pass-through elevator test has stopped with an error.
PCR 17100		The Remote Management Pages do not reflect the library online state correctly (Java version 6 issue).
PCR 17370		State and Drive Activity fields always display unknown .
PCR 17725	SR: 777244	Public SNMP community cannot be removed.
PCR 17847		SCSI Inquiry does not return the library serial number once a partition is named.
PCR 18206	SR: 798660	The library Remote Management Pages/ Setup SCSI/Fibre does not report the correct status.
PCR 19001		The Healthtest does not fail but logs a B506 event in the hard que.
PCR 19032		Add a test to move a cartridge from the top to the bottom of a library stack (and back)
PCR 19033		A Failed move to the Lower Pass-thru leaves the unit stuck in a Moving state.
PCR 19034		Remote Management Pages: Allow more than 15 chars in the Find Media ID area.
PCR 19037		Add specific text to failed get cartridge events.
PCR 19041		Improved media handling in the pass-through.
PCR 19042		Add an SNMP and E-mail event to inform user of a Host Reserve on the library.
PCR 19043		The OCP does not notify that the tape drive updated has completed when downgrade finishes.
PCR 19044		OCP: Drive operation screen is not correctly updated after drive power off.
PCR 19045		Prevents the Pass-through Elevator and the Hand can becoming FULL at the same time when moving tape cartridges from the Remote Management Pages
PCR 19051		The left door is opening up during power-on on some PX502 backplanes.
PCR 19096		Improve message if a user hits remove when no partition is selected/available.
PCR 19116		The WWNN need to be unique for each partition like SN - Networker autoconfig fails.
PCR 19185		Configuration of partitions is allowed (when it shouldn't be) with a Parallel SCSI or iSCSI library.
PCR 19258	SR: 818050	The library goes into an unexpected error state and the date and time are incorrect.
PCR 19288	SR: 815106	Allow the library to configure drives if drive found after the configuration process.

Change Request Number	Service Request Number	Description
PCR 19295		The pass-through calibration has been improved.
PCR 19345		In a partitioned system, from the host interface, you can move a tape in the gripper from one partition to a second partition.
PCR 19373		No UA queued following library offline/online transition (nFC only).
PCR 19387		The Hardware Status page is reporting half-height tape drive installation incorrectly.
PCR 19449		The format of the serial number on the OCP has been improved.
PCR 19510		CDB's are not rejected when the link bit is set in control byte.
PCR 19543		When a Fibre Channel switch is attached to a FC Scalar 50, the WWNN and WWPNN are identical.
PCR 19603		Setup Wizard creates a partition with invalid elements.
PCR 19635		Setup Wizard Configuring SCSI devices panel is not wrapping all windows with Mozilla firefox.
PCR 19636		The Setup Wizard must not include setting up partition options for parallel SCSI and bridged SCSI hosted systems.
PCR 19674		Persistent reserve out register service action doesn't enforce APTPL bit
PCR 19676		Reservation conflict status returned to host with a valid I_T nexus registration following library power cycle with APTPL bit set.
PCR 19852		Warn user that reconfiguring slave as a standalone will remove the partitioning configuration
PCR 19858		A perpetual java loop is entered when an operation is attempted requiring the library to go offline.
PCR 19973		Tape stuck in jammed pass-thru is reported in both hands.
PCR 20083		Pass-thru slot 2 calibration may be incorrect.
PCR 20084		Add optional TA's: cooling fan (0x1B) and power supply (0x1C).
PCR 20119		OCP Fibre Channel tape drive and media changer configuration does not work.
PCR 20126		28/01 Unit attention presented to host when the I/E load port door is initially opened instead of only when closed.
PCR 20151		Capacity on Demand (COD) should be disabled, all units set to full capacity.
PCR 20171		Source element address may become corrupted in a stacked system.
PCR 20193		Doors enable default should be changed to enabled .
PCR 20212		The library shouldn't clear tape alerts when only the Log Sense header is requested because it prevents the host from seeing the actual state of the library.

Known Issues

This release of Scalar 50 and PX5xx (V51) firmware has the following known issues:

Change Request Number	Service Request Number	Description	Workaround
PCR 17460		When logging in through service telnet port, the first login always fails.	This only occurs with some telnet clients. This will be corrected in future releases of library firmware.
PCR 18082		False power supply and power supply fan critical events may be logged on rare occasions.	This will be corrected in future releases of library firmware.
PCR 19087		OCP/Remote Management Pages: A method is needed to unlock the doors when a host goes down leaving the doors in a locked state.	Restart the backup application and unlock resources. This is a usability change that will be addressed in a future release.
PCR 19090		The number of event fields on the OCP should match what the customer is able to view (critical, warning, and information).	This will be corrected in future releases of library firmware.
PCR 19188		Remote Management Pages: The drive firmware update does not refresh to the new firmware version once the update completes. It requires a power cycle to update.	To display the correct drive firmware version after an update on the Remote Management Pages, the customer will need to power cycle the library.
PCR 19242		Log Sense page 07 (Last N Error Events) doesn't work as reported in the Software Interface Guide.	This will be corrected in future releases of library firmware.
PCR 19853		The drive firmware update through the Remote Management Pages sometimes fails.	Try the procedure again, if it still fails use the primary port connection to update drive firmware.
PCR 19997		During a I/E column port operation, if Release Magazine is selected from OCP and tapes are moved around, the library can fail after the door closes and a re-scan occurs.	If load ports are being accessed, do not attempt to release the magazine. This will be corrected in future releases of library firmware

Change Request Number	Service Request Number	Description	Workaround
PCR 20130		The User password is rejected if it contains “_”.	Do not attempt to use “_” with a user password. Instead, use another non-alphanumeric character in its place. This will be corrected in future releases of library firmware.
PCR 20354		A drive log download from a Quantum LTO-3 HH tape drive can cause a brief loss of communication to the remote management pages. The library status icon will change to Communication Down .	This is only a temporary loss of communication (30 seconds to 2 minutes). After that time, the communication to the remote management pages will return. This will be corrected in future releases of library firmware.

Documentation

Scalar 50 Documentation

The following documents are currently available for the Scalar 50 (V51).

Document Number	Document Title
	Scalar 50 Quick Start Guide
81-81768 A01	Scalar 50 User’s Guide
81-81769 A01	Scalar 50 Tape Drive Installation Instructions
81-81770 A01	Scalar 50 Tape Drive Replacement Instructions
81-81771 A01	Scalar 50 Magazine Upgrade/Exchange Instructions
81-81772 A01	Scalar 50 Chassis Repacking Instructions
81-81793 A01	Scalar 50 Power Supply Upgrade Instructions
81-81359 A01	TC2201 User’s Guide
6311658 A01	SNMP Integration Guide
81-81289 A01	Software Interface Guide

To order a copy of the source code covered by the Open Source License, contact the Quantum Technical Assistance Center. Refer to Contacting Quantum below.

PX5xx Documentation

The following documents are currently available for the PX5xx and Scalar 50 (V51).

Document Number	Document Title
	PX502 Quick Start Guide
81-81290 B01	PX500 Series User's Guide
81-81304 A01	PX500 Series Tape Drive Installation Instructions
81-81303 A01	PX500 Series Tape Drive Replacement Instructions
81-81379 A01	PX500 Series Power Supply Upgrade Instructions
81-81357 A01	PX500 Series Tape Magazine Upgrade Instructions
81-81453 A01	PX502 Chassis Repacking Instructions
81-81354 A01	FC1202 User's Guide
81-81359 A01	TC2201 User's Guide
6311658 A01	SNMP Integration Guide
81-81802 A01	Firmware Upgrade Instructions for Stacked Libraries
81-81289 A01	Software Interface Guide

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Contacting Quantum

More information about this product is available on the Service and Support website at www.quantum.com/support. The Service and Support Website contains a collection of information, including answers to frequently asked questions (FAQs). You can also access software, firmware, and drivers through this site.

For further assistance, or if training is desired, contact Quantum:

Quantum Technical Assistance Center in the USA:	+1 800-284-5101
For additional contact information:	www.quantum.com/support
To open a Service Request:	www.quantum.com/esupport

For the most updated information on Quantum Global Services, please visit: www.quantum.com/support