



Release Notes

Product	Scalar 50® and PX5xx® V.42
Web Browsers (Remote Web Client)	Microsoft® Internet Explorer 6.0 and later versions and Mozilla Firefox™ 1.0.6 and later versions
Date	September 2007

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Purpose of This Release

Scalar 50 and PX5xx (V.42) 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 (V.42) includes the following feature for this new product launch.
 - **HP LTO-4 Tape Drive Support** - The Scalar 50 and PX5xx now supports HP LTO-4 tape drives.

Compatibility Matrix

The following table provides information about library and tape drive firmware compatibility with Scalar 50 and PX5xx (V.42) This information is current as of the publication date of these release notes.

Scalar 50 Compatibility Matrix

Component	Firmware Version
Library Firmware	V.42
Drive Types	
Quantum DLT-S4 (SCSI)	V41
HP LTO-3 (SCSI)	G63Z
HP LTO-3 (Fibre)	L63Z
HP LTO-4 (SCSI)	B21Z
HP LTO-4 (Fibre)	H21Z
Quantum LTO-3 HH (SCSI)	V20236216-900
Quantum LTO-3 HH (Fibre)	V20236216-700

PX5xx Compatibility Matrix

Component	Firmware Version
Library Firmware	V.42
FC1202 Fibre Channel bridge	5.6.2h
Drive Types	
Quantum SDLT 320	V96
Quantum SDLT 600	V45
Quantum DLT-S4 (SCSI)	V41
HP LTO-2 (SCSI)	F6CZ
HP LTO-3 (SCSI)	G63Z
HP LTO-3 (Fibre)	L63Z

Resolved Issues

This release of Scalar 50 and PX5xx (V.42) firmware resolved the following issues:

Change Request Number	Service Request Number	Description
ATLca16872		The library firmware now returns the proper error status when the hand fails to retract after a tape has been successfully placed to drive. This allows the recovery algorithm to react properly and complete the move. The drive put operation is now more reliable.
ATLca14887		<p>The library firmware now enables the watchdog timer and adds the Watchdog ISR recovery during lock up. The Watchdog ISR will take the following actions if the idle entry has not been running for 10 minutes.</p> <ul style="list-style-type: none"> • Shutdown/crash code information (Save restore registers SR0-SR3 and checksum info) will be written to the ring buffer. • The ring buffer will be saved to flash (about 700 lines of ring buffer info is available). • The LED on the OCP will be set to Amber indicating an error. <p>NOTE: After a library system lock up, the user must wait until the OCP LED changes from green to amber before rebooting the system. After the library reboots, the user can collect an FA log from the GUI. A new file 'Z_lockup.log' will be included for debug and analysis.</p>
ATLca16853		The IR link interrupt in standalone systems has been disabled. This can prevent a system lockup in a standalone system.

Change Request Number	Service Request Number	Description
ATLca16830		The library firmware has now added an implementation to check for the safe to rotate zone in the srvoParkForDoorOpen (home all axis after load port magazine door is opened). This modification allows the XY home to take place only after the safe to rotate check is complete. This corrects the possible robotic error if tape happens to be ejected from drive 4 and a door is opened.
ATLca16151		On system power up or whenever the autocal (di test 8) function is invoked, an image file showing the calibration point to the ram disk (cam_cal_image.gif) is saved. This file is now uploaded as part of the FA log and a link can be created on the service GUI so this image can be viewed. This enhances the overall serviceability of the system.
ATLca16137		For the initial sensor poweron, the time delay after enabling and before reading the sensors has been increased to 1 sec from 10 milliseconds. This allows the picker to consistently find the home position during boot up.

Known Issues

This release of Scalar 50 and PX5xx (V.42) firmware has the following known issues:

Change Request Number	Service Request Number	Description	Workaround
ATLca16865		Drive operation screen on OCP is not correctly updated after drive power off.	No action required, the issue displays on the OCP.
ATLca16320		OCP does not notify the user that a drive update has completed when a downgrade finishes.	No action required, the issue displays on the OCP.
ATLca16335		OCP does not show message UPGRADE COMPLETE when finished upgrading a stacked library system.	No action required, the issue displays on the OCP.
ATLca16947		Putting a tape cartridge in the pass through slot can strike the left side of the slot on some systems.	Collect an FA log and contact Quantum Technical Services.
ATLca15996		The number of events field on the OCP should match what the customer will be able to view (critical, warning, and information).	This will be corrected in future releases of the library firmware.
ATLca16225		Configuring of partitions is allowed (when it shouldn't be) with a Parallel SCSI or iSCSI library.	Delete the partitions and create a single partition. This will be prevented in future releases of the library firmware.

Change Request Number	Service Request Number	Description	Workaround
ATLca16629		Library may lockup and become unresponsive through the OCP and over all other interfaces on EXTREMELY rare occasions.	Pull the power cord from the back of the library. Collect an FA log and contact Quantum Technical Services.
ATLca15856		Remote GUI: When executing "Sequential Slot" from the System Test page, the System Test Status dialog box incorrectly displays "Unable to allocate transaction ID".	Ignore the message and no actions required by the customer or FE. This will be corrected in a future release of the library firmware.
ATLca16160		Remote GUI: Drive firmware update does not refresh to new version once update completes. Requires a power cycle to update.	To display the correct drive firmware version after an update on the Remote GUI, the customer will need to power cycle the library.
ATLca15533		OCP/GUI: A method is needed to unlock the doors when a host goes down leaving the doors in a locked state.	Restart application and unlock resources. This is a usability change that will be addressed in a future release.
ATLca16217		When upgrading firmware of all cabinets in a stack configuration, the cabinets may lock up.	Customer or FE needs to update the stack system using the new procedure outlined in the User's Guide.
ATLca15996		Current event/number events need to be changed.	This is a reporting issue. Note that currently the number of events includes unspecified events, which should not be included in the count.

Documentation

Scalar 50 Documentation

The following documents are currently available for the Scalar 50 (V.42).

Document Number	Document Title
81-81767-01 A01	Scalar 50 Quick Start Guide
81-81768-01 A01	Scalar 50 User's Guide
81-81769-01 A01	Scalar 50 Tape Drive Installation Instructions
81-81770-01 A01	Scalar 50 Tape Drive Replacement Instructions
81-81771-01 A01	Scalar 50 Magazine Upgrade/Exchange Instructions
81-81772-01 A01	Scalar 50 Chassis Repacking Instructions
81-81793-01 A01	Scalar 50 Power Supply Upgrade Instructions

Document Number	Document Title
81-81359-01 A01	TC2201 User's Guide
6311658-08 A01	SNMP Integration Guide
81-81289-04 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 (V.42).

Document Number	Document Title
81-81292-03 B01	PX502 Quick Start Guide
81-81290-05 B01	PX500 Series User's Guide
81-81304-04 A01	PX500 Series Tape Drive Installation Instructions
81-81303-03 A01	PX500 Series Tape Drive Replacement Instructions
81-81379-01 A01	PX500 Series Power Supply Upgrade Instructions
81-81357-03 A01	PX500 Series Tape Magazine Upgrade Instructions
81-81453-02 A01	PX502 Chassis Repacking Instructions
81-81354-01 A01	FC1202 User's Guide
81-81359-01 A01	TC2201 User's Guide
6311658-08 A01	SNMP Integration Guide
81-81802-01 A01	Firmware Upgrade Instructions for Stacked Libraries
81-81289-03 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