



Release Notes

Product	Scalar® i40 and Scalar i80
Release Version	i5
Firmware Version	150G.GS003
Operating Systems (Remote Web Client)	Microsoft® Windows®: Internet Explorer® 7, 8 and 9; Mozilla® Firefox® 3.5.x and 3.6.x and later versions Solaris™: Firefox 1.0.6 or later Linux®: Firefox 1.0.6 or later
Date	February 2013

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Purpose of this Release

These release notes describe the product's new features and enhancements, resolved issues, and currently known issues for the current release. Visit <http://www.quantum.com> for a complete description and information about the Scalar i40 and Scalar i80 tape libraries.

New Features and Enhancements

The following new features are included in this release:

- Added support for Half-height LTO-6 Fibre Channel (FC) and SAS drives.

Compatibility Matrix

The following table provides information about drive firmware compatibility with the Scalar i40 and Scalar i80 firmware version 150G.GS003. This information is current as of the publication date of these release notes. For the most up to date information on Quantum Global Services, please visit: www.quantum.com/support.

Firmware Compatibility

Component	Firmware Version
Library Firmware	150G.GS003
Robot Control System (RCS)	
XY controller board	300Q.GR012
Picker controller board	300Q.GG007
Drive Types	
LTO-4 Full-height SAS	A63Z
LTO-4 Full-height Fibre Channel	H63Z
LTO-4 Half-height SAS	U61Z
LTO-4 Half-height Fibre Channel	V61Z
LTO-5 Half-height SAS	Z5BZ
LTO-5 Half-height Fibre Channel	Y5DZ

Component	Firmware Version
LTO-6 Half-height SAS	32CZ
LTO-6 Half-height Fibre Channel	22FZ

Software Compatibility

- To view a list of which backup software packages have been tested for interoperability with the Scalar i40 and Scalar i80, see the Quantum Software Compatibility Guide at <http://www.quantum.com/swcompguide.aspx>.
- KMIP Key Manager Encryption is supported on SafeNet KeySecure K150 and K460 servers.

Security Scans

Scan	Result
Ran Nessus against the i5 code	No high or medium warnings with i5 were found on Nessus 4.2.2-build 9129.

General Usage Notes

This section lists guidelines for general system usage.

Description	Guideline
If downgrading firmware, downgrade support includes the present release minus two major versions.	For example, if your library is at version i4.x, firmware downgrades are supported to version i2.x and version i3.x.
Clear Web browser cache after upgrading firmware or applying new license keys.	After upgrading library firmware or applying new license keys, do the following to ensure that the new menus are displayed: <ol style="list-style-type: none"> 1) Delete all Web browser history. 2) Refresh the Web browser. 3) Log back into the library.
NTP does not work on a Red Hat Linux server using IPv6.	This is an issue with Red Hat Linux, not library firmware. If you are using Red Hat Linux, you cannot use NTP with IPv6.
Using two NTP servers can cause incorrect time calculations.	The current software supports using one, two, or three NTP servers. The recommendation is to use one or three NTP servers (but not two).

Description	Guideline
On the Scalar i80, when a second power supply is inserted while the library is powered on, diagnostic ticket DT002 – PS Failure is immediately produced for that power supply before the user has a chance to plug the power supply in to an AC outlet. This can cause a false diagnostic ticket for an inserted power supply before applying power.	Close diagnostic ticket DT002 and monitor for recurrence. If the ticket recurs, contact Quantum Support.
The library automatically turns partitions offline when performing certain operations, and turns them back online again when the operation successfully completes. However, if the operation fails, the partitions will remain offline.	Evaluate the issue to determine if and when the partitions need to be brought online again. When you are ready to bring the partitions back online, you must do so manually (from the Web client, select Operations > Partitions > Change Mode).
Avoid manually generating SKM encryption keys on more than five libraries simultaneously as the key generation process is resource-intensive on the server.	Generating keys manually on more than five libraries at once could result in a failure to complete the key generation operation, or interfere with key retrieval operations. If a failure does occur during key generation, wait 10 minutes, then try to start it again. The key generation process will resume from where the error was encountered.
When CPF is enabled on HP LTO-5 Half-height Fibre Channel drives that are directly connected to the HBA, the control path drive speed is reduced to 1 Gb or Unknown, and the drive may lose connection with the host.	In order for CPF to function, the drives need to be connected to an NPIV capable FC switch prior to enabling CPF.

Resolved Issues

This release of the Scalar i40 and Scalar i80 firmware contains the following resolved issues:

Change Request Number	Service Request number	Description	Resolution
33340		The host loses the media changer device after enabling Library Managed Encryption (LME) with Control Path Failover (CPF) enabled.	This issue has been addressed.
33495		Host loses the medium changer when changing drive speed on drives with CPF enabled.	This issue has been addressed.

Change Request Number	Service Request number	Description	Resolution
34912		For a Scalar i80 library, cannot run an Installation and Verification Test (IVT) when the library is configured for 10 I/E slots. All other valid I/E slot configurations work properly.	IVT can now run on all valid configurations, including one having 10 I/E slots.
40181		Boot software OSS license does not display in Online Help	The Help page has been corrected.
41685		Provide a link to user documentation from the Online Help.	The user documentation is available on Quantum.com. A link to the site is provided at the top of the Online Help window.
42190	1503380	The library firmware inaccurately reported tape drive load failure and a lost tape cartridge.	The issue has been addressed.

Known Issues

This release of the Scalar i40 and Scalar i80 firmware contains the following known issues:

Change Request Number	Service Request number	Description	Workaround
23978		When manual cartridge assignment is enabled (the default setting), a tape cartridge that is placed into an I/E station slot when the library is turned off is left "stranded" when the library is turned on. The tape is shown as being present in the I/E station slot, but you cannot import or move it, and the Assign I/E screen does not appear on the operator panel to help you assign the cartridge. The library configuration report indicates that the slot is "Unavailable."	Unlock and open the I/E station. Remove the tape cartridge from its slot and place it in a different I/E station slot. Close the I/E station. The cartridge is now available for assignment, and the Assign I/E screen appears on the operator panel.
28530		With Internet Explorer 6 and 7, occasionally Web client menus do not display after logging in. This is very intermittent and seems to happen only after clearing the browser cache and/or rebooting the library.	Refresh the browser.

Change Request Number	Service Request number	Description	Workaround
32761	SR1240150	After clearing the cache and refreshing browser, a user still cannot log in using Internet Explorer to access the Web client.	Login to the Web client using Firefox.
32815		IVT Drive Test fails when the host sends commands to a drive under IVT test.	Do not initiate host commands to drives while performing an IVT drive test.
32897		Issue with Brocade FC switch - data is written to library slowly at 5MB~10MB/sec.	Configure connection as point-to-point.
33083		Media Security alerts are not posted when removing a tape drive or magazine containing media.	No workaround. Media Security does not post alerts on removed components.
33228		Export Current does not export Encryption Key Management (EKM) encryption keys from the library for tape cartridges that were relabeled with new barcode labels.	<p>Since the library will no longer track the old barcode label information associated with the encryption key identifier of the media, users should keep track of any barcode label information that is replaced with new barcode label information, key export operations are performed via the Export Current functionality. Once Export Current operations have been performed and do not contain encryption keys for relabeled tape cartridges, perform selective encryption key export operations for media with the previous barcode label information and import into the new key servers.</p> <p>Alternatively, if tape cartridges have been relabeled and encryption keys will not be exported for such tape cartridges via the Export Current functionality, use the Export Used functionality, to export all encryption keys ever used by the library.</p>

Change Request Number	Service Request number	Description	Workaround
33278		Exporting a large quantity of keys consumes all available library controller memory and hangs the export operation.	<p>If the operator panel does not respond after 4 hours, the library will have to be power cycled to recover.</p> <p>Limiting the number of encrypted tapes (keys) to 8000 will, in most cases, keep the library from becoming unresponsive during a key export and should complete in 45 - 60 minutes.</p> <p>If the number of tapes encrypted is greater than 8000 and an export is attempted it is expected to take over an hour, use the Firefox browser to complete this operation. Timeouts have been observed in Internet Explorer (IE) once it goes over an hour in duration.</p>
33406		If EKM and Advanced Reporting (AR) licenses are already installed and Control Path Failover is enabled, reapplying the EKM or AR license key while running backups/restore operations causes backups/restore operations to fail.	Do not reapply licenses while running backups and restore operations.
40056		Library hangs during configuration verification when upgrading from GS002 to GS003	Reboot the library.
41993		When changing drive settings, the drive may report the speed and topology as 'Unknown'.	Verify that the drive is connected to the system by checking the Library Configuration report and/or backup software.

Change Request Number	Service Request number	Description	Workaround
42054		When a library with LTO-6 drives enabled for Control Path Failover is rebooted, the library reports 'DT166 - Library Control Path Warning'.	<p>The message 'DT166 - Library Control Path Warning' may not report the drive location accurately.</p> <ol style="list-style-type: none"> 1 Visually verify the drive location by looking for the LED link light at the back of the drive. 2 Verify the connection speed by reviewing the connection speed for the drive in the system interface. 3 Follow the resolution steps for 'DT166 - Library Control Path Warning'.
42111		System generates Tape Alert ticket(s) indicating a partition is not assigned.	Note the drive location on the ticket. Review the Library Configuration report to verify the drive partition assignment.

Documentation

The following documents are currently available for the Scalar i40 and Scalar i80.

Document Number	Document Title
6-66545-08	Scalar i40 and Scalar i80 User's Guide
6-66546-09	Scalar i40 and Scalar i80 Quick Start Guide
6-00618-11	System, Safety, and Regulatory Information
6-66773-04	Scalar i40 and Scalar i80 Basic SNMP Reference Guide
6-00423-11	Quantum Intelligent Libraries SCSI Reference Guide
6-01317-10	Quantum Intelligent Libraries SMI-S Reference Guide

Contacting Quantum

More information about this product is available on the Service and Support Web site at www.quantum.com/support. The Service and Support Web site 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:

Telephone Support — Find contact information for your location	http://www.quantum.com/ServiceandSupport/Contacts/ProductSelect/Index.aspx
Service and Support Web site:	www.quantum.com/support
To open an Online Service Request:	www.quantum.com/osr

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

