

Quantum Scalar i6000 Release Notes

Product	Scalar® i6000, Firmware Version i12.4.1
Firmware Version	735Q.GS04600
Operating Systems (Standalone LMC Client)	Microsoft Windows Ubuntu x86/ia64 Red Hat Linux x86/ia64
Supported Web Browsers (Java GUI)	Firefox Internet Explorer versions 7 and higher
Supported Web Browsers (WebGUI)	Firefox Chrome
Required Java Runtime Environment (JRE)	JRE version 6 and higher
Date	June 2016

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Purpose of This Release

The Scalar i6K i12.4.1 release details bug fixes described in the <u>Resolved Issues</u> section.

Visit <u>http://www.quantum.com</u> for additional information about the Scalar i6000 and prior releases.

New Features and Enhancements

This release contains the following new features or enhancements:

- Ability to use the GUI to enable the robot
- Added a QR code to RAS Tickets for easy scanning and messaging
- Updated vendor ID options
- Changed default for SMI-S from Enabled to Disabled.

General Information

- HTTPS and (if enabled Secure SMI-S) are configured to only support 128 or above keys, and TLS 1.0 or above. SSLv3 and below is turned off.
- The standalone LMC client is not provided by default. Contact Quantum Service for details.
- JRE is not required with the standalone LMC client.
- If media is encrypted on an IBM drive using Library Managed Encryption (LME), the library will initially report the media as being unencrypted when it is actually encrypted. The encryption status of the media will be properly reported once the media is re-mounted in the drive.
- To help maintain system integrity and for marketing purposes, Quantum regularly collects system information through automatic emails. These emails contain configuration and status information only, and do not contain any customer data stored on the system. To disable this function:
 - **1** Log on to your library.
 - 2 Go to Setup > System Setting > Physical Library.
 - 3 In the Send Usage Statistics area, select the Disable radio button.
 - 4 Click OK.
- The Web client places a cookie on the user's computer to provide the last user's credentials upon login. The cookie only collects the user's credentials to facilitate login, and does not collect any other user data.

• IPv6 and DHCPv6 may cause issues in libraries running i12.x versions. Update to i12.3 to address these issues.

Special Instructions -Web Browsers

If your browser no longer supports Java, like Google Chrome, you can use **Java Web Start** to run the remote GUI.

1 In your browser, type the IP address or Library name in the address field and press **Return**. The following screen displays.

1	Name:	Library Management Console Applet
e la constante de la constante	Publisher:	Quantum Corporation
	Location:	http://dvt20.hw.quantum.com
		Run Cancel
More	e Information	

* If you are having trouble starting the Library Management Console, use the following link to launch the application <u>Java Web Start</u>

2 At the bottom of the screen, click the Java Web Start link. Your browser will download and launch an application that will allow you to use the remote GUI like normal.

Security Scanners

Quantum runs the following Security scanners against the library:

- BeyondTrust Retina Network Security Scanner version 5.18.3.2656.
 - No critical issues were reported

Compatibility and Support

Encryption Key Management Drive Support

Encryption Option	HP LTO-4	IBM LTO-4	HP LTO-5	IBM LTO-5	HP LTO-6	IBM LTO-6	IBM LTO-7
Application Managed Encryption	Supported						
Q-EKM	Not Supported	Requires EKM License	Not Supported	Requires EKM License	Not Supported	Requires EKM License	Not Supported
SKM	Requires EKM License	Not Supported	Requires EKM License	Requires EKM License	Requires EKM License	Requires EKM License	Requires EKM License
KMIP Key Manager ¹	Requires EKM License	Not Supported	Requires EKM License	Requires EKM License	Requires EKM License	Requires EKM License	Requires EKM License

Firmware Compatibility Matrix

The following table shows information on drive and auxiliary firmware compatibility with this release of Scalar i6000. This information is current as of this product release. For the most up-to-date information on the latest qualified firmware, please visit: <u>http://www.quantum.com</u>.

Release: i12.4.1 Library Firmware: 735Q.GS04600

Drive Types	Firmware Version ²
IBM LTO-1 (SCSI)	5AU1
IBM LTO-1 (FC)	5AU1
IBM LTO-2 (SCSI)	A4N0
IBM LTO-2 (FC)	A4N0
IBM LTO-3 (FC) 2 Gb	93GM
IBM LTO-3 (FC) 4 Gb	93GM
IBM LTO-4 (FC) 4 Gb	С7QH
IBM LTO-5 (FC) 8 Gb	G360
IBM LTO-6 (FC) 8 Gb	G350
IBM LTO-7 (FC) 8 Gb	G340
HP LTO-3 (FC) 2 Gb	L67Z
HP LTO-3 (FC) 4 Gb	M69Z
HP LTO-4 (FC) 4 Gb	H64Z
HP LTO-5 (FC) 8 Gb	I6PZ
HP LTO-6 (FC) 8 Gb	J5EZ
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1. For information about installing the LMC remote client, contact Quantum Support.

2. Check with Quantum Support for the latest firmware.

3. Logical serial number addressing (drive spoofing) is not supported.

Backup Software Compatibility

To view a list of backup software packages that have been tested for interoperability with the Scalar i6000, refer to the *Quantum Software Compatibility Guide* at <u>http://www.quantum.com/swcompguide.aspx</u>.

Resolved Issues

Change Request Number	Service Request Number	Description	Resolution
51994		When a drive sled is added to a partition it may not appear in RES data.	Fixed.
58507	3618008	Configuration Report for drive cleaning policy was reporting partitions with drive cleaning enabled when the GUI was showing drive cleaning disabled.	Fixed.
58982	3616346	User Guide was showing host access support for IBM drives.	Fixed.
59160	3650874	Library was attempting to configure LTO-4 drives for Ethernet.	Fixed.
59291	3655732	Library was not allowing a non-standard email address from being configured.	Fixed.
59884	3677134	Robot failed to take inventory of a tower after the scanner failed.	Fixed.

This release of Scalar i6000 firmware resolved the following issues:

Known Issues

This release of i6000 i12.4.1 firmware has the following known issues.

Change Request Number	Service Request Number	Description	Workaround
42325		If a SafeNet key server(s) in a cluster is not reachable during normal key requests, encryption keys issued by other key servers in the cluster will not automatically replicate to the unreachable server(s) afterwards.	Users need to sync the key server cluster manually.

Change Request Number	Service Request Number	Description	Workaround
43012		When the library has an issue importing encryption keys, an error message erroneously informs users that there was a communication issue with the key server.	Verify that communication to the key server is operational (perform Path Diagnostics). If communication with the key server is not impacted, the issue is that the keys cannot be imported due to being wrapped with a certificate (public key) that does not match the server's private key.
43149		In some instances, during a drive firmware update and associated drive reboot, a diagnostic ticket reporting the drive has been removed may be generated.	The drive should come back online after the firmware update is complete and the diagnostic ticket will auto close. If not, follow the directions on the diagnostic ticket to troubleshoot.
50514, 50591	1647282, 1647440	MICA should only inform of multi-initiator conflicts, not just multi-initiator operation without reservations.	If multi-initiator operation without reservations is being reported, you can filter the diagnostic tickets. From the GUI, configure the library to enable diagnostic ticket filtering (Setup > Notifications > Tickets Filter).
51721		When manually aborting IVT the Library Alignment part of the test shows an Unknown SCSI error.	This is a false positive.
52434	3382082, 3399088	If a open door is detected, the library may report the wrong door as open.	 Check to ensure that all doors are closed properly. Check the lance (small metal piece in door lock) to see if it is damaged. Repair if possible and close door.
52884		The remote Apache web server is affected by the Apache web server chunk handling vulnerability. If safe checks are enabled, this may be a false positive since it is based on the version of Apache. Although unpatched Apache versions 1.2.2 and above, 1.3 through 1.3.24, and 2.0 through 2.0.36 are affected, the remote server may be running a patched version of Apache.	An i6000 library does not use Apache. This is a false positive.
53329		EEB attached IBM LTO-5 and LTO-6 drives upgraded to latest drive firmware may come up in the library in passive mode.	Reboot each drive individually. If that doesn't fix the issue, reboot the library.

Change Request Number	Service Request Number	Description	Workaround
54202		If you disconnect the cable from a control path drive that is connect to a host HBA, the library will lose connectivity to the robot.	 Update path to robot. run library audit checklabel = barcode. Media will now return to its home slot. Users are now able to run simultaneous backups to both drives without repairing FC connection on Host HBA.
54220		If the control path drive fails over during an import, any media in the picker will not be discovered.	 Run checkin libvolume search=yes to pickup missing media Then rerun the checkin libvolume search=bulk to import remaining media in I/E.
54580		A Series 3 control module may show the presence of two CMBs even though there is only one.	There is no negative effect to library functionality. The second CMB listed is actually the MCB.
54884	3522766	During a library snapshot, the HDC may go offline.	Reboot the library.
55202		When upgrading from i11.x to i12.x, all ticket suppression filters will not be restored. Restoring a configuration back to i11.3 will also not restore the filters.	Before the upgrade, note which filters you have set and then reset them after the upgrade is complete.
55216		In libraries larger than 8 frames, a geo-addressing issue may cause diagnostic tickets related to CMBs and HDCs to be generated in error.	Reboot the library.

Documentation

Document Number	Document Title
6-66879-xx	Scalar i6000 User's Guide
6-66882-xx	Scalar i6000 Planning Guide
6-01847-xx	Quantum Encryption Key Manager User's Guide
6-01884-xx	Quantum Encryption Key Manager Release Notes
6-66532-xx	Scalar Key Manager Quick Start Guide
6-66531-xx	Scalar Key Manager User's Guide
6-66572-xx	Scalar Key Manager Safety Information by IBM
6-66535-xx	Scalar Key Manager Open Source License Agreement

The following documents are currently available for the Scalar i6000.

Contacting Quantum

More information about this product is available on the Service and Support website at <u>www.quantum.com/support</u>. 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/osr

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

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