

# Quantum Scalar i6000 Release Notes

Product	Scalar® i6000, Firmware Version i12.4.3
Firmware Version	737Q.GS01000
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 (1.6) and higher
Date	October 2016

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### **Purpose of This Release**

The Scalar i6K i12.4.3 maintenance 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 no new features or enhancements.

### **General Information**

	<ul> <li>HTTPS and, if enabled Secure SMI-S, are configured to only support 128-bit or above keys, and TLS 1.0 or above. SSLv3 and below is turned off.</li> </ul>
	<ul> <li>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.</li> </ul>
	<ul> <li>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:</li> </ul>
	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.
	<ul> <li>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.</li> </ul>
Special Instructions -	If your browser no longer supports Java, like Google Chrome, you can use Java
Web Browsers	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.

	Name:	Library Management Console Applet
- Second Second	Publisher:	Quantum Corporation
	Location:	http://dvt20.hw.quantum.com
Do not show t	his again for apps	from the publisher and location above

\* Java plugin version 1.6 or higher is required. If it is currently not installed, please follow the download instructions from <a href="http://www.quantum.com/java">http://www.quantum.com/java</a>. This is a one time installation and it will remain on your system once it is installed.

\* 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:

- Nessus Professional v. 6.8.1
- Nexpose by Raid7, Inc.

## 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 <sup>1</sup>	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>.

Drive Types	Minimum Firmware Version <sup>1</sup>		
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	G5S0		
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		
1. Check with Quantum Support for the latest firmware.			

#### 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
60778		Using web services for logins causes database tables to fill up rapidly and create a free disk space issue.	Fixed.
60775	3702506	Parallel move commands may fail with dual robot libraries.	Fixed.
60768		The web service session cookie is not being deleted when a user session times out.	Fixed.
53329		EEB attached IBM LTO-5 and LTO-6 drives upgraded to latest drive firmware may come up in the library in passive mode.	Fixed.

This release of Scalar i6000 firmware resolved the following issues:

### **Known Issues**

This release of i6000 i12.4.3 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 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.
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.

Change Request Number	Service Request Number	Description	Workaround
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.	No action needed.
52434	3382082, 3399088	If a open door is detected, the library may report the wrong door as open.	<ul> <li>Check to ensure that all doors are closed properly.</li> <li>Check the lance (small metal piece in door lock) to see if it is damaged. Repair if possible and close door.</li> </ul>
52884		Nessus incorrectly reports tha the remote Apache web server is affected by the Apache web server chunk handling vulnerability.	An i6000 library does not use Apache. No action needed.
54220		If the control path drive fails over during an import, any media in the picker will not be discovered by TSM on AIX.	<ul> <li>From the TSM/AIX console:</li> <li>1 Run checkin libvolume search=yes to pickup missing media</li> <li>2 Then rerun the checkin libvolume search=bulk to import remaining media in I/E.</li> </ul>
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.	<ol> <li>Power cycle the tower.</li> <li>Reboot the library.</li> </ol>
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 apply them after the upgrade is complete.

### 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>