Quantum Scalar i6000
Release Notes

Product	Scalar® i6000, Firmware Version i11.3
Firmware Version	675Q.GS04301
Operating Systems (Remote LMC Client)	Microsoft^{TM} Windows® Solaris^{TM} Red Hat® Linux
Supported Web Browsers	Firefox Internet Explorer versions 7, 8 and 9
Required Java Runtime Environment (JRE)	JRE version 6 and 7
Date	October 2014

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Purpose of This Release

The Scalar i6K i11.3 release details bug fixes described in the Resolved Issues section.

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

New Features and Enhancements

This release contains the following new features and enhancements:

- CMB2 support
- openSSL 1.0.1h support

Security Scanners

Quantum runs the following Security scanners against the library:

- Tenable Nessus (live feed). The following critical issue is being reported against the server:
  - 11084 - Web Server HTTP Header Memory Exhaustion DoS against port 5988 (SMI-S)

  The result of this scan however is:

  Nessus was unable to crash the web server, so this might be a false positive.
- 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
Application Managed Encryption	Supported	Supported	Supported	Supported	Supported	Supported
Q-EKM	Not Supported	Requires EKM License	Not Supported	Requires EKM License	Not Supported	Requires EKM License
SKM	Requires EKM License	Not Supported	Requires EKM License	Requires EKM License	Requires EKM License	Requires EKM License
RKM	Requires EKM License	Not Supported	Requires EKM License	Not Supported	Requires EKM License	Not Supported
KMIP Key Manager[1]	Requires EKM License	Not Supported	Requires EKM License	Requires EKM License	Requires EKM License	Requires EKM License

[1] - Only SafeNet and Thales encryption key servers are supported KMIP configurations

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: http://www.quantum.com.

Release: i11.3
Library Firmware: 675Q.GS04301
Library Management Console (LMC) Remote Client: 672G.GH31000

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

Drive Types	Firmware Version[2]
IBM LTO-3 (FC) 2 Gb	93GM
IBM LTO-3 (FC) 4 Gb	93GM
IBM LTO-4 (FC) 4 Gb	C7QH
IBM LTO-5 (FC) 8 Gb	E4J3
IBM LTO-6 (FC) 8 Gb	E4J3
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	I6CZ
HP LTO-6 (FC) 8 Gb	J3LZ

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 http://www.quantum.com/swcompguide.aspx.

Resolved Issues

This release of Scalar i6000 firmware resolved the following issues:

Change Request Number	Service Request Number	Description	Resolution
52387	3403758	When attempting to import a large number of SKM encryption keys (1000 or more) at one time, the library may report an incorrect error.	Fixed. The library will now report an error for the library and not the SKM server.
52939		Attempting to read a KMIP encrypted tape written by a previous version of i11.x cannot be read by i11.3.	Fixed. All KMIP encrypted media are now forward and backward compatible in i11.3.
52952	3477840	If no HP drives are present in a library, SKM server(s) cannot be configured.	Fixed.
52079	3391472	Trying to reuse SKM encryption keys on brand new media will fail.	Fixed.
53025		Media encryption on an IBM drive using Library Managed Encryption (LME) may report the media as being not encrypted when it actually is encrypted.	Fixed.
52373		EDLM drives that are set for periodic drive cleaning may fail to perform cleaning operation correctly.	Fixed.

Known Issues

This release of i6000 i11.3 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 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
42665		In advanced control path failover (ACPF) partitions with mixed HP LTO-6 and LTO-5 drives cannot use HP LTO5 in as a control path failover drive.	Configure an HP LTO-6 drive as the control path drive.
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).\
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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 on 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.

Documentation

The following documents are currently available for the Scalar i6000.

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

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/osr

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