Quantum Scalar i6 Release Notes

Product	Scalar® i6
Library Firmware Version	160G.GS161 (i2.2)
Veeam Tape Server iBlade BaseOS	v1.2.0-3
Scalar LTFS iBlade BaseOS	v1.3.0-6
Supported Web Browsers for WebGUI	Firefox Chrome Microsoft Edge
Date	September 2018

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About This Release

The Scalar i6 i2.2 (160G.GS161) release includes new features and enhancements as well as any Known Issues that could be experienced when using this firmware release. The release also details bug fixes described in the Resolved Issues section.

New Features and Enhancements

This release includes the following new features or enhancements:

- FIPS support for IBM LTO-6, LTO-7, and LTO-8.

- iBlade support for additional Windows-based applications.

- Partitions increased up to 32 (Limitations apply. See documentation center for details).

- Trap reporting enhancements.

General Information

- With the Scalar i2.2 (160G.GS161) release, Scalar i6 systems with an Internet connection will now automatically update and level the iBlade BaseOS FW during a library FW update.

  If the Scalar i6 system does not have an Internet connection, you can still update your iBlade BaseOS FW as described on our Documentation Center:

  - Go to www.quantum.com/documentation and select your product.

  - Go to **Operate > User Guide > About Devices > Devices BaseOS**. To will see detailed steps on updating iBlade BaseOS FW

- Veeam Tape Server iBlades - If Microsoft Hyper-V or any other hypervisor is installed on the Veeam Tape Server iBlade, the Virtual Machine (VM) Operating System (OS) will not be able to see the blade FC/SAS controller. This will cause the Scalar drives to no longer be visible to the VM OS.

- Bridging interfaces on the Veeam Tape Server iBlade is not supported and can cause network card issues.

- Some snapshots, logs or RAS tickets are as large as 12 MBs. If you have automated notifications configured for RAS tickets and logs you may not receive them if your email does not allow attachments of this size.

- To help maintain system integrity and for marketing purposes, Quantum regularly collects system information through automatic emails (telemetrics). These emails contain configuration and status information

only, and do not contain any customer data stored on the system. See WebGUI Default Settings for information on how to disable telemetrics.

- 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.

WebGUI Default Settings

Scalar i6 software is installed with certain default settings. This section outlines those default settings. Review this section to determine if any of the default settings need to be changed to make your library run more effectively.

WebGUI Path	Option	Default Setting
User Access > Settings	Local User Interface (LUI) Access	Open Access
	Admin/User Access: Session Timeout	15 minutes
	Services Access: Enable Remove Access	Indefinite
	Enable Local Service Port Login: Access Window	Indefinite
Notifications > RAS Tickets	Enable RAS Tickets	Enabled
	Severity	All options enabled
Notifications > Reports	Scalar Telemetrics	Once you have an email server configured, telemetrics is enabled for monthly automatic emails. To disable, click the **Trash** icon.
Library > IE Area	I/E Slots	0 (zero)
Library > Settings	Operational Parameters: Automatic Inventory	Enabled
	Operational Parameters: Library-Assisted Drive Unload	Disabled
	Operational Parameters: Logical Drive Serial Number Addressing	Enabled
	IE Assignment Mode: Local UI Assignment	Enabled

Security Scanners

Quantum runs the following Security scanners against the library:

- Nessus Professional v. 6.11.1
- insightVM 6.4.63

Compatibility and Support

Encryption Key Management Drive Support

Encryption Option	IBM LTO-6 (FH)	IBM LTO-7 (FH)	IBM LTO-8 (FH)
Application Managed Encryption	Supported	Supported	Supported
SKM	Requires SKM License	Requires SKM License	Requires SKM License
KMIP Key Manager[1]	Requires EKM License	Requires EKM License	Requires EKM License
[1] - Only SafeNet, IBM SKLM and Thales encryption key servers are supported KMIP configurations It is recommended that Safenet servers be updated to v8.6.0.			

Firmware Compatibility Matrix

The following table shows information on drive compatibility with this release of Scalar i6. 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.

Drive Types	Minimum Firmware Version[1]
IBM LTO-6 (FC) (FH) 8 Gb	J450
IBM LTO-6 (FC) (FH) 8 Gb (FIPS)	J450
IBM LTO-7 (FC) (FH) 8 Gb	J4D0
IBM LTO-7 (FC) (FH) 8 Gb (FIPS)	J4D0
IBM LTO-8 (FC) (FH)	J4D0
IBM LTO-8 (FC) (FH) (FIPS)	J4D0
1. Check with Quantum Support for the latest firmware.	

Software Compatibility   To view a list of backup software packages which have been tested for interoperability with the Scalar i6 Library, see the Quantum Software Compatibility Guide at http://www.quantum.com/swcompguide.aspx.

Resolved Issues

This release of Scalar i6 i2.2 (160G.GS161) firmware has the following resolved issues:

Change Request Number	Service Request Number	Description	Resolution
61245		When running a Drive Assembly Test, selecting multiple drives does not ensure all drives are tested.	Fixed.
61993		Media failed to import but the WebGUI indicated a successful import.	Fixed.
62009		GUI allows EDLM and Active Vault partitions to be configured to trigger EDLM scans when a tape alert is generated.	Fixed.
64258		Unable to open Scalar i6 snapshot files when downloaded with Firefox.	Fixed.
64628 67559	346411	Generic error message occurs when incorrect license key is used on a Scalar system.	Error message improved.
65796 66300	368972	Generic error message occurs when library firmware download fails.	Error message improved.
66133	372647	SKM chassis serial number issues when CM chassis replaced.	Fixed.
66374	426118	RAS ticket during LUI shutdown.	Fixed.
66451		A library with both Ethernet ports configured on two completely separate subnets only had one port working after a library reboot.	Fixed.
66703		Upgrades to the Veeam Tape Server iBlade BaseOS causes unexpected failures and may require you to update a second time.	Fixed.
66770		Latest version of the IBM LTO-8 tape driver needs to be added to the BaseOS.	Fixed.

Change Request Number	Service Request Number	Description	Resolution
67176		TRAP reporting enhancements.	RAS ticket detail table added to SNMP. New TRAP is sent any time a new RAS ticket is opened.
67289	404324	No support for subject alternative names during certificate CSR generation.	Subject alternative name support added.
67324	404148	Slow RES commands.	Fixed.
67506	410086	More drives added to an LME partition than available licenses.	Fixed.
67598		SNMP enhancements.	Date/time and subsystem information added to SNMP RAS tickets.
68262		Insufficient information when troubleshooting rack joint issues.	Fixed. ET032 ticket identifies module-to-module issues.

Known Issues

This release of Scalar i6 i2.2 (160G.GS161) firmware has the following known issues.

Change Request Number	Service Request Number	Description	Workaround
59543		Automated RAS ticket notifications that include snapshots are unable to be sent because snapshot file is too large.	Make sure that your email is enabled to receive attachments as large as 12 MB.
61789		EDLM scans were taking too long to complete.	EDLM scans will only be performed on media not loaded in a drive.
62027		Failure occurs when attempted to add drives and slots to a partition.	Wait for a drive to be initialized before attempting to add it to a partition.
62032		Unable to log into the RUI when a demo is running.	Works as designed. All users are logged out when a demo is running.
62230		Restore fails when invalid or corrupt image is used.	Use the restore image as soon as possible to test it. If the image fails, save a different restore image.

Change Request Number	Service Request Number	Description	Workaround
65020		Medium Changer Device driver not started after Scalar upgrade, causing Veeam to see Veeam Tape Server iBlade as offline.	Restart the iBlade. Go to **Operate > User Guide > About Devices**. Select **Devices Restart** from the right navigation menu.
65238		Could not create SSL/TLS secure channel.	Any application or browser connecting over https must support TLS v1.2.
68324		Cannot change a partition encryption path diagnostic duration when partition is online.	Take the selected partition offline. Reset the encryption path diagnostic duration back to zero and put the partition back online.

Documentation

The following reference documents are currently available for the Scalar i6.

Document Number	Document Title
6-68529-xx	*Scalar i6 Documentation Center*
6-68531-xx	*SNMP Reference Guide*
6-00423-xx	*SCSI Reference Guide*
6-68185-xx	*Web Services API Guide*
6-68120-xx	*muCommander - Quantum Edition User's Guide*
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*

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