



Quantum Scalar Release Notes

Product	Scalar i6
Firmware Version	251G.GS043
Supported Web Browsers	Firefox Chrome Microsoft Edge Apple Safari
Date	August 2020

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About This Release

The Scalar i6 251G.GS043 release is a feature and maintenance release that details bug fixes described in the [Resolved Issues](#) section. Refer to [Known Issues](#) for additional information.

What's New in this Release?

This release supports the Scalar i6 library. Features in this library include:

- Multi-Factor Authentication (MFA) support added. MFA is an authentication method that requires the user to successfully enter both a password and an authentication code before access to the library is allowed. Quantum strongly advises using Network Time Protocol (NTP) with MFA to ensure that the library and the authentication client device share the same time.
- California Senate Bill 327 (SB-327) compliance. Updates to the Scalar library include:
 - SSH disabled by default.
 - Remote service login disabled by default.
 - Default password must be changed on first use.
- Improvements to robot movement in multi-module libraries.

General Information

- After a library firmware upgrade, Quantum recommends that you clear your web browser cache before logging back into the WebGUI.
- If an iBlade is present, Scalar i6 systems with an Internet connection will 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 and teaming 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 (ScalarTelemetrics). 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.
- Any application or browser connecting over https must support TLS v1.2.
- To help maintain system integrity and for marketing purposes, Quantum regularly collects system information through automatic emails and cloud based telemetric auto support. These emails and auto support telemetric data contain configuration and status information only, and do not contain any customer data stored on the system.

Email Support

To disable this function:

1. Log on to your library.
2. Select **Notifications** from the **Navigation** menu.
3. Select the check box next to *scalartelemetrics@quantum.com* in the **North Panel**.
4. From the **Operation** panel, select **Reports**.
5. Click the trash can icon next to **Scalar Telemetrics** report.
6. Click **Apply**, then **Close**.

Auto Support

To disable this function:

1. Log on to your library.
2. Select **Notifications** from the **Navigation** menu.
3. Select the check box next to *Auto Support* in the **North Panel**.
4. To disable RAS tickets, select **RAS Tickets** From the **Operation** panel.
5. De-select the **Enable Auto Support Communication** check box.
6. Click **Apply**, then **Close**.
7. From the **Operation** panel, select **Reports**.

8. Click the trash can icon next to **Scalar Telemetrics** report.
9. Click **Apply**, then **Close**.

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 Remote Access	Disabled
	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: LibraryAssisted Drive Unload	Disabled
	Operational Parameters: Logical Drive Serial Number Addressing	Enabled
	Operational Parameters: Logical System Addressing	Disabled
	IE Assignment Mode: Local UI Assignment	Enabled

WebGUI Path	Option	Default Setting
System > Network	Connectivity / SSH	Disabled
System > Notifications	Email Reports / Auto Support	Enabled
System > Settings	Library-Initiated Website Access	Enabled

Security Scanners

Quantum tests with the following Security scanners against the library:

- Nessus Professional v. 8.10.1

Compatibility and Support

Encryption Key Management Drive Support

The following table provides the encryption key management drive support.

Encryption Option	IBM LTO-6 (FH)	IBM LTO-7 (FH)	IBM LTO-8 (FH)
Application ManagedEncryption	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.

Web Browser Support

The Scalar i6 WebGUI supports the following web browsers. Quantum recommends upgrading to the latest version of the browser.

Web Browser	Versions Supported
Internet Explorer	Not supported.
Google Chrome	Version 51 and above.
Mozilla Firefox	Version 55 and above.

Firmware Compatibility

For the most up-to-date information on the latest qualified library and drive firmware, please visit:

<https://www.quantum.com/serviceandsupport/softwareanddocumentationdownloads/si6/index.aspx>

Drive Firmware

The following table shows the latest drive firmware packaged with this release.

FC Full High (FH) Drive Types	Latest Firmware Version
IBM LTO-6 (FC) (FH) 8 Gb ¹	KAJ8
IBM LTO-6 (FC) (FH) 8 Gb (FIPS)	KAJ8
IBM LTO-7 (FC) (FH) 8 Gb ¹	M570
IBM LTO-7 (FC) (FH) 8 Gb (FIPS)	M570
IBM LTO-8 (FC) (FH) 8 Gb ¹	M570
IBM LTO-8 (FC) (FH) 8 Gb (FIPS)	M570

¹ Bundled with library firmware.

Tape Drive Driver Versions

The following table provides the tape drive driver versions.

Drive Manufacturer	OS	Approved Version	Comments
IBM	Linux	3.0.31	Includes APFO & LTO8
IBM	Windows	6.2.6.6	Includes APFO & LTO8
IBM	AIX	13.0.22.0	Includes APFO & LTO8

The latest tape driver versions are located at:

<https://www.quantum.com/serviceandsupport/softwareanddocumentationdownloads/si6/index.aspx>

Backup Software Compatibility

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

Resolved Issues

This release of Scalar 251G.GS043 firmware resolved the following issues (bug fixes).

Change Request Number	Service Request Number	Description	Resolution
SQ-148 (71065)		Tape cartridges that are left at a location other than the specified destination will generate a RAS ticket.	Enhancement.
SQ-423	535925	Incorrect RAS ticket reported when tape stuck in EDLM drive.	Fixed.
SQ-490		Library support added to comply with California Senate Bill 327 (SB-327)	Enhancement.
SQ-507		Set Automation Device Attributes support added to inform drives of their SCSI element address.	Enhancement.
SQ-597	547467	lighttpd flagged in security scans.	Fixed.

Change Request Number	Service Request Number	Description	Resolution
SQ-635		Multi-Factor Authentication (MFA) supported added to library.	New Feature.
SQ-657		Humidity and temperature rate change warnings removed from library.	Fixed.
SQ-789		Improvements to robot movement in multi-module libraries.	Enhancement.
SQ-794	558940 568996	SNMP does not report adjusted temperature and humidity values.	Fixed.

Known Issues

This release of Scalar 251G.GS043 firmware has the following known issues:

Change Request Number	Service Request Number	Description	Workaround
69167		EDLM report shows as Untested even though it was scanned	Disregard status
SQ-354 (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.
SQ-355 (65020)		Medium Changer Device driver not started after Scalar upgrade, causing Veeam to see Veeam Tape Server iBlade as offline	Restart the iBlade. In the WebGUI, go to WebGUI > Devices . Select Devices Restart from the right navigation menu.
SQ-556		Veeam updates fail when using Service Port.	Use customer ports for updates.

Documentation

The following documents are currently available for the Scalar i6.

Document Number	Document Title
6-68529	<i>Scalar i6 Documentation Center</i>
6-68529	<i>SNMP Reference Guide (in Documentation Center)</i>
6-68529	<i>SCSI Reference Guide (in Documentation Center)</i>
6-68529	<i>Web Services API Guide (in Documentation Center)</i>
6-68529	<i>muCommander - Quantum Edition User's Guide (in Documentation Center)</i>
6-67320	<i>Scalar i3 & i6 Open Source Software Licenses</i>

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