



Quantum Scalar i6 Release Notes

Product	Scalar i6
Firmware Version	272G.GS022
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About This Release

The Scalar i6 272G.GS022 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. Enhancements in this library include:

- LTO-9 drive support.
- Updated LTO-7 and LTO-8 drive firmware.
- Bug fixes (see [Resolved Issues on page 8](#)).

Important Information - LTO-9 Media

- With the higher track densities of the LTO-9 media format, it is necessary to perform tape calibration on LTO-9 media when it is loaded into a drive for the first time. This tape calibration can take up to two hours on the first load. During this calibration period, host applications may timeout.
- **Do Not** use an uncalibrated LTO-9 tape as a scratch tape in a Quantum library Installation Verification Test (IVT). If you do, the test will immediately fail and the drive will continue to calibrate the tape until it is complete. You will then need to manually remove the (now calibrated) tape and re-run IVT.

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
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)	IBM LTO-9 (FH)
Application ManagedEncryption	Supported	Supported	Supported	Supported
SKM	Requires SKM License	Requires SKM License	Requires SKM License	Requires SKM License
KMIP Key Manager ¹	Requires EKM License	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.
Apple Safari	Recommend latest version.
Microsoft Edge	Recommend using Edge version 79 or greater, using the Chromium engine. This resolves issues of slowness found in the older versions of Edge.

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

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	N4Q0
IBM LTO-7 (FC) (FH) 8 Gb (FIPS)	N4Q0
IBM LTO-8 (FC) (FH) 8 Gb ¹	N4Q0
IBM LTO-8 (FC) (FH) 8 Gb (FIPS)	N4Q0
IBM LTO-9 (FC) (FH) 8 Gb ¹	N7N0

¹ Bundled with library firmware.

SAS Full High (FH) Drive Types	Latest Firmware Version
IBM LTO-9 (SAS) (FH) 12 Gb ¹	N7N0
¹ Bundled with library firmware.	

iBlade BaseOS Versions for Library Code

The following table provides the iBlade BaseOS versions for the 272G.GS022 library code.

iBlade OS	Customer BaseOS Download From Web	iBlade SLFTS Application
Linux	1.3.0-6	2.10.0-40
Windows	1.3.0-4	N/A

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>

Resolved Issues

This release of Scalar 272G.GS022 firmware resolved the following issues (bug fixes).

Change Request Number	Service Request Number	Description	Resolution
SQ-1106		LTO-9 support added.	Enhancement.
SQ-1917		LTO-7 and LTO-8 drive firmware updates (NQ40).	Enhancement.
SQ-1989	623689	Library firmware upgrade causes robotics issues.	Fixed.
SQ-2037	626694	LDAP issues after firmware upgrade.	Fixed.

Known Issues

This release of Scalar 272G.GS022 firmware has the following known issues:

Change Request Number	Description	Workaround
69167	EDLM report shows as Untested even though it was scanned	Disregard Untested status and verify that EDLM scan occurred based on timestamps in the Cross Partition Move report.
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.
SQ-1193	Manual drive cleaning fails when I/E station is open and closed while cleaning is in process.	Close error and repeat manual drive cleaning.
SQ-1792	Reverse tunnel does not allow a service user to access the library.	In the WebGUI, go to User Access > User Access Settings > Service Access . Select the Enable Remote Login check box.
SQ-1970	LTO-9 media initialization time.	When LTO-9 media is loaded into a drive for the first time, it may take up to two hours for the media to be initialized and calibrated. You should expect delays in media access and unload timing.

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