

Scalar i3, i6, and i6H

Release Notes 320G.GS051

Product/Software Release Date March 2024

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About This Release

The Scalar 320G.GS051 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 i3, i6, and i6H libraries. Enhancements in this library include:

- LTO-9 media calibration updates.
- Login Audit report limited to a 90 day data collection.
- To view all bug fixes and enhancements, see [Resolved Issues on page 10](#)

General Information

- The Product library WebGUI application requires that the browser cache be cleared and the application re-loaded to ensure that all new functionality is implemented.
- (Scalar i3/i6 only) If an iBlade is present, Scalar systems with an Internet connection will automatically update and level the iBlade BaseOS FW during a library FW update.

If the Scalar 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
- (Scalar i3/i6 only) 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.
- (Scalar i3/i6 only) 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.
- 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 or higher.

- 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**.

After a library firmware upgrade, Quantum recommends that you clear your web browser cache before logging back into the WebGUI.

Library Default Settings

Scalar i3, i6, and i6H 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

WebGUI Path	Option	Default Setting
	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: Library Assisted 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:

- Tenable Nessus Professional Version 10 - Version 10.5.1 (#8) WINDOWS

No high/critical vulnerabilities found against this release using Nessus Professional Security Scanner.

Compatibility and Support

Encryption Key Management Drive Support

The following table provides the encryption key management drive support.

Full-Height Drives

Encryption Option	IBM LTO-6 (FH)	IBM LTO-7 (FH)	IBM LTO-8 (FH)	IBM LTO-9 (FH)
Application Managed Encryption	Supported	Supported	Supported	Supported
SKM	Requires SKM License	Requires SKM License	Requires SKM License	Requires SKM License
TKLM/SKLM ²	Requires EKM License	Requires EKM License	Requires EKM License	Requires EKM License
KMIP Key Manager ¹	Requires EKM License	Requires EKM License	Requires EKM License	Requires EKM License

1. Only SafeNet/Thales encryption key servers are supported/tested KMIP configurations.

2. Applies to IBM TKLM/SKLM and SGKLM (GKLM) key server communication using the KMIP communication protocol.

Half-Height Drives

Encryption Option	IBM LTO-6 (HH)	IBM LTO-7 (HH)	IBM LTO-8 (HH)	IBM LTO-9 (HH)
Application Managed Encryption	Supported	Supported	Supported	Supported
SKM	Requires SKM License	Requires SKM License	Requires SKM License	Requires SKM License
TKLM/SKLM ²	Requires EKM License	Requires EKM License	Requires EKM License	Requires EKM License
KMIP Key Manager ¹	Requires EKM License	Requires EKM License	Requires EKM License	Requires EKM License

1. Only SafeNet/Thales encryption key servers are supported/tested KMIP configurations.

2. Applies to IBM TKLM/SKLM and SGKLM (GKLM) key server communication using the KMIP communication protocol.

Web Browser Support

The Scalar i3, i6, and i6H 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 114 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:

Scalar i3 Firmware

<https://www.quantum.com/en/service-support/downloads-and-firmware/si3/>

Scalar i6 Firmware

<https://www.quantum.com/en/service-support/downloads-and-firmware/si6/>

Drive Firmware

Scalar i3 Drives

SAS Half High (HH) Drive Types	Latest Firmware Version
IBM LTO-6 (SAS) (HH) 6 Gb	KAJ9 ¹
IBM LTO-7 (SAS) (HH) 6 Gb	Q387 ¹
IBM LTO-8 (SAS) (HH) 6 Gb	Q387 ¹
IBM LTO-9 (SAS) (HH) 12 Gb	Q9E1 ¹
¹ Bundled with library firmware.	

FC Half High (HH) Drive Types	Latest Firmware Version
IBM LTO-6 (FC) (HH) 8 Gb	KAJ9 (Standard) ¹
	KAJ9 (FIPS)
IBM LTO-7 (FC) (HH) 8 Gb	Q387 (Standard) ¹
	Q387 (FIPS)
IBM LTO-8 (FC) (HH) 8 Gb	Q387 (Standard) ¹
	Q387 (FIPS)
IBM LTO-9 (FC) (HH) 8 Gb	Q9E1 (Standard) ¹
	Q9E1 (FIPS)
¹ Bundled with library firmware.	

Scalar i6 Drives

FC Full High (FH) Drive Types	Latest Firmware Version
IBM LTO-6 (FC) (FH) 8 Gb	KAJ8 (Standard) ¹ KAJ8 (FIPS)
IBM LTO-7 (FC) (FH) 8 Gb ¹	Q386 (Standard) ¹ Q386 (FIPS)
IBM LTO-8 (FC) (FH) 8 Gb	Q386 (Standard) ¹ Q386 (FIPS)
IBM LTO-9 (FC) (FH) 8 Gb	Q9E0 (Standard) ¹ Q9E0 (FIPS)
IBM LTO-9 (SAS) (FH) 12 Gb ¹	Q9E0 (Standard) ¹ Q9E0 (FIPS)
¹ Bundled with library firmware.	

Scalar i6H Drives

FC Full High (FH) Drive Types	Latest Firmware Version
IBM LTO-7 (FC) (FH) 8 Gb	Q386 (Standard) ¹ Q386 (FIPS)
IBM LTO-8 (FC) (FH) 8 Gb	Q386 (Standard) ¹ Q386 (FIPS)
IBM LTO-9 (FC) (FH) 8 Gb	Q9E0 (Standard) ¹ Q9E0 (FIPS)
IBM LTO-9 (SAS) (FH) 12 Gb	Q9E0 (Standard) ¹ Q9E0 (FIPS)
¹ Bundled with library firmware.	

iBlade BaseOS Versions for Library Code

The following table provides the iBlade BaseOS versions for the 320G.GS051 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

The latest tape driver versions are located at:

Scalar i3

<https://www.quantum.com/en/service-support/downloads-and-firmware/si3/>

Scalar i6

<https://www.quantum.com/en/service-support/downloads-and-firmware/si6/>

Resolved Issues

This release of Product 320G.GS051 firmware resolved the following issues (bug fixes).

Change Request Number	Service Request Number	Description	Resolution
SQ-3072		LDAP configuration with Kerberos does not work.	Fixed.
SQ-3093		Media accessibility information is not always correct, and reports media as accessible when it is not.	Fixed.
SQ-3485		Library should reject LTO-9 media calibration requests if all specified media show a status of inaccessible. Inaccessible media includes media that is ejected, sequestered, or logically blocked.	Fixed.
SQ-3527		Unexpected error value occurs when creating a partition.	Fixed.
SQ-3554		Library is reset to factory default after firmware rollback.	Fixed.
	752197		
	752092		
SQ-3566	752644	SNMP error on IP address OID.	Fixed.
	752839		
WUI-1505		Login Audit report limited to a 90 day data collection window.	Enhancement.

Known Issues

This release of Product 320G.GS051 firmware has the following known issues:

Change Request Number	Description	Workaround
SQ-556	Veeam iBlade updates fail when using service port.	Use customer port to perform Veeam iBlade 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-1531	Humidity and temperature differences occur between the library temperature and humidity sensors and additional sensors outside of the library.	<p>Library temperature and humidity readings may be different than additional temperature and humidity readings within a data center. Temperature and humidity sensors provide status for temperature readings and approximations internal to the library enclosure.</p> <p>External air outside is heated up inside the library enclosure due to numerous factors, such as the frequency of robotic operations and the number of drives and drive operations. This can warm the air by about 2°C to 6°C within the library enclosure.</p> <p>As result of the air heating inside the library, the humidity will also drop within the library enclosure. Keep this in mind when setting library temperature and humidity ranges.</p>
SQ-1585	Drive sled connectivity issues generate RAS ticket ET085 (Drive Sled Connection Problem).	There is no workaround, but the occurrence of this error will be greatly reduced in the latest 320 library firmware release.
SQ-1733	<p>A syslog resource with an invalid name is created when DNS is configured. When running a test command, the response is <i>500, The syslog server test failed.</i></p> <p>This can be incorrectly interpreted that the test started but was not finished successfully, when the issue is that the host does not exist.</p>	Make sure the configured syslog server can be reached with DNS identification.

Change Request Number	Description	Workaround
SQ-2711	Attempting to upgrade library firmware to a newer firmware version from the "Firmware from Quantum Website" upload option under System > Library Firmware fails.	Download the firmware to your local computer and use the "Firmware from Local Computer" upload option.
SQ-3163	If the "Automatic Install on Next Reboot" library firmware upgrade option is selected, the "Roll back to firmware/firmware version" radio button does not display the previous version of library firmware after the firmware upgrade is complete.	Previous versions of library firmware can be uploaded to the library using the "Firmware from Local Computer" upgrade option.
SQ-3322	WebGUI issues occur when using browser tabs to sign in as two different users in the same browser.	Do not sign on as two different users within the same browser. You MUST sign off in order to log in as a different user; or use a different browser.
SQ-3588	Drive status of a drive performing LTO-9 calibration operations displays "Good" instead of "Calibrating".	Drive status should change to "Calibrating" after 30 seconds of calibration operations.
WUI-1273	Drive/Media Issue Timeline does not show all data for selected time frame.	Select larger time frame.
WUI-1493	System > Syslog and Encryption > KMIP Key Manger modal windows display 11th row.	Disregard 11th row. Only 10 servers (10 row entries) are allowed.
WUI-1652	Partition control path for Advanced Path Failover (APF) allows mixed SAS and FC drives to be enabled for primary and secondary control paths.	You cannot mix FC and SAS drives for primary and secondary control paths. Select FC drives or SAS drives only.
WUI-1807	After library is reset to factory default, the WebGUI displays an unknown product error message.	If you receive this error, refresh the WebGUI page and re-install current code.
WUI-1849	Library humidity and temperature min/max values do not update when using the slider.	Enter the updated range in Min (%) and Max (%) fields. Select Apply to update the range.

Documentation

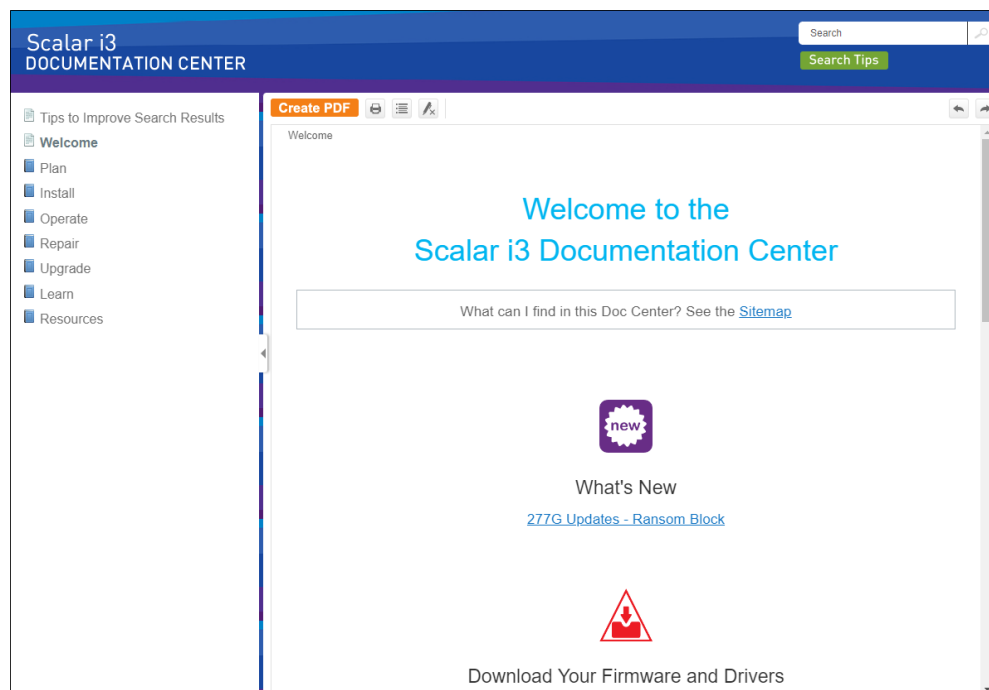
Scalar i3 Documentation

All Scalar i3 documentation is available at the Scalar i3 Documentation Center:

www.quantum.com/Scalari3Docs

Scalar i3 documentation includes:

- Site Planning Guide
- Installation Guide
- Operation Guides
- Repair and Upgrade Guides
- Reference Guides (Web Services, SCSI, SNMP)



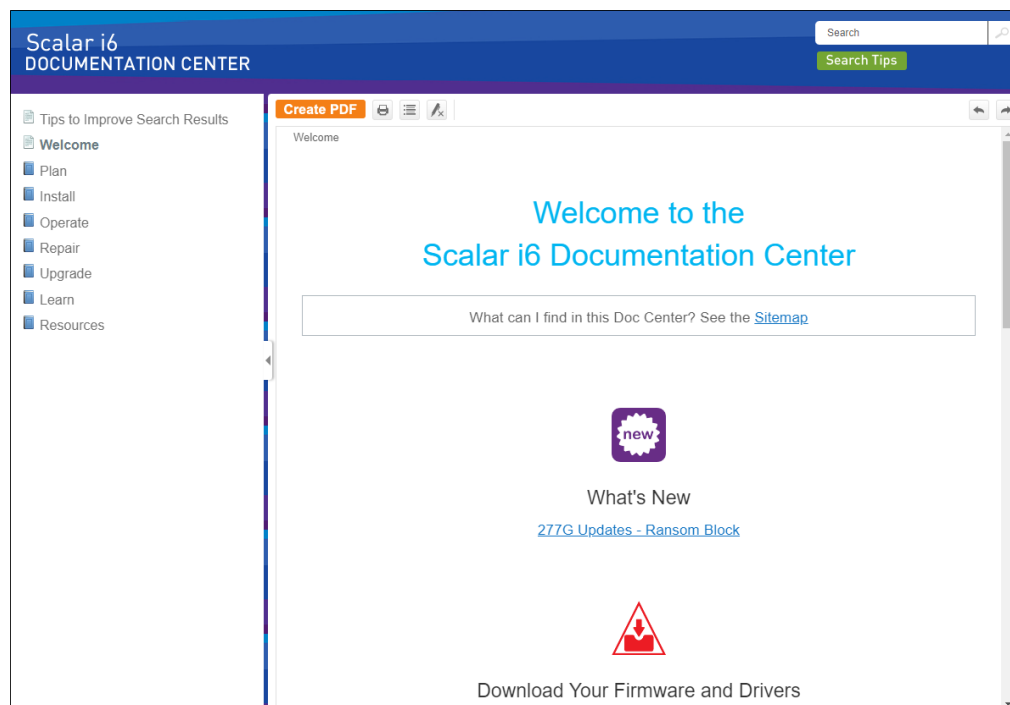
Scalar i6 Documentation

All Scalar i6 documentation is available at the Scalar i6 Documentation Center:

www.quantum.com/Scalari6Docs

Scalar i6 documentation includes:

- Site Planning Guide
- Installation Guide
- Operation Guides (WebGUI, SNMP, SCSI, Web Services)
- Repair and Upgrade Guides
- Reference Guides



Contacting Quantum

For further assistance, contact the Quantum Customer Support Center:

Region	Support Contact
North America	1-800-284-5101 (toll free) +1-720-249-5700
EMEA	+800-7826-8888 (toll free) +49 6131 324 185
Asia Pacific	+800-7826-8887 (toll free) +603-7953-3010

For worldwide support:

<https://www.quantum.com/en/company/contact-us/>
