

Quantum Scalar i3 Release Notes

Product	Scalar i3
Firmware Version	278G.GS041
Date	February 2022

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About This Release

The Scalar i3 278G.GS041 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 library. Enhancements in this library include:

- New LTO-9 drive firmware.
- Automatic Drive Cleaning Option support added.
 - In addition to tape drive requested cleaning needs, you can now configure how often a drive may be cleaned within any 24-hour time frame, and whether a library firmware determined drive error-code-based cleaning algorithm should also be enabled or disabled to initiate drive cleaning requests. These drive cleaning requests cannot exceed the configurable number of error-code-based cleanings for any 24-hour time frame.
- Bug fixes and enhancements (see [Resolved Issues on page 8](#)).

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 i3 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

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

Compatibility and Support

Encryption Key Management Drive Support

The following table provides the encryption key management drive support.

Encryption Option	IBM LTO-6 (HH)	IBM LTO-7 (HH)	IBM LTO-8 (HH)	IBM LTO-9 (HH)
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 i3 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/si3/index.aspx>

Drive Firmware

SAS Half High (HH) Drive Types	Latest Firmware Version
IBM LTO-6 (SAS) (HH) 6 Gb ¹	KAJ9
IBM LTO-7 (SAS) (HH) 6 Gb ¹	N9M1
IBM LTO-8 (SAS) (HH) 6 Gb ¹	N9M1
IBM LTO-9 (SAS) (HH) 12 Gb ¹	NCA1

¹ Bundled with library firmware.

FC Half High (HH) Drive Types	Latest Firmware Version
IBM LTO-6 (FC) (HH) 8 Gb ¹	KAJ9
IBM LTO-7 (FC) (HH) 8 Gb ¹	N9M1
IBM LTO-8 (FC) (HH) 8 Gb ¹	N9M1

FC Half High (HH) Drive Types	Latest Firmware Version
IBM LTO-9 (FC) (HH) 8 Gb ¹	NCA1
¹ Bundled with library firmware.	

iBlade BaseOS Versions for Library Code

The following table provides the iBlade BaseOS versions for the 278G.GS041 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/si3/index.aspx>

Resolved Issues

This release of Scalar 278G.GS041 firmware resolved the following issues (bug fixes).

Change Request Number	Service Request Number	Description	Resolution
SQ-1003	557960	Communication certificates encrypted on the library.	Enhancement.
SQ-2123 WUI-1216		Prevent the use of an expired cleaning tape when manual cleaning of the library is performed.	Enhancement.
SQ-2345		New LTO-9 drive firmware (NCA1)	Enhancement.
SQ-2360		Quantum library firmware download site now supports HTTPS.	Enhancement.
SQ-2381		Green mode re-enabled for any LTO-9 drive with NCA1 and later drive firmware.	Enhancement.
SQ-2388	0646042	Cannot delete LDAP user from User Access list in WebGUI.	Fixed.
SQ-2399		Real time tape presence detection support added for drive PUT operations.	Enhancement.
SQ-2407		Drive PUT issue.	Fixed.
WUI-1112		Automatic Drive Cleaning Option support added to Library > Configuration > Settings .	Enhancement.

Known Issues

This release of Scalar 278G.GS041 firmware has the following known issues:

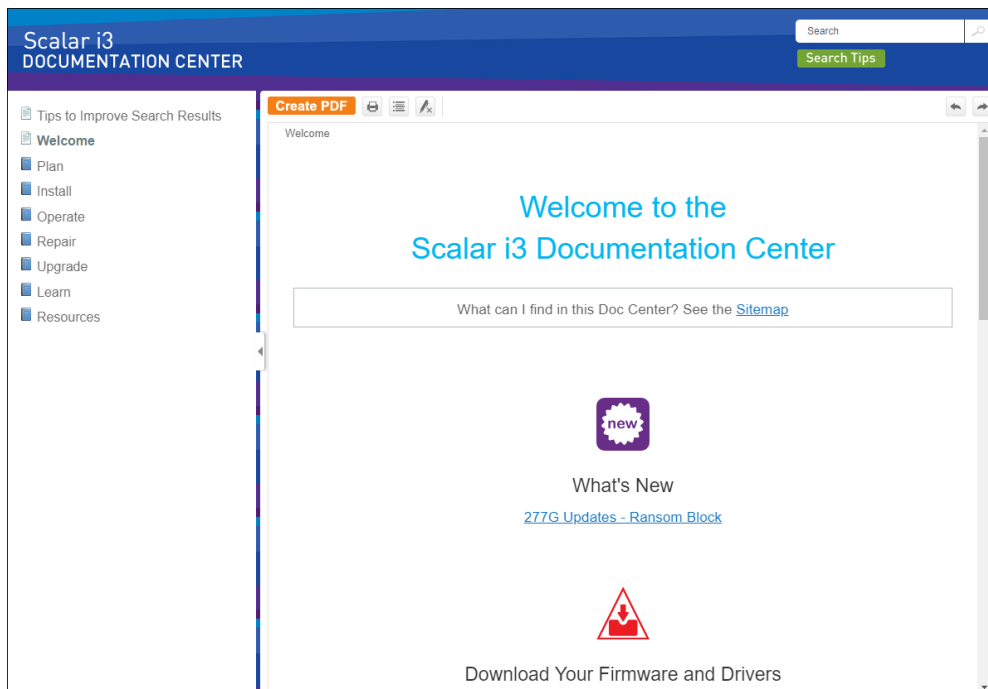
Change Request Number	Description	Workaround
SQ-1193	Manual drive cleaning fails when I/E station is open and closed while cleaning is in process.	Close error and repeat manual drive cleaning.
SQ-1847	Library posts Power Supply Configuration/Installation RAS ticket (ET004) after a library firmware upgrade. The power supplies are powered on and no fault is indicated.	Disregard and close the RAS ticket.
SQ-2434	Media does not complete calibration if drive is varied off.	Do not vary off drives during media calibration.
SQ-2443	<p>Under Library > Configuration > Settings, the following Automatic Drive Cleaning options are currently not available:</p> <ul style="list-style-type: none">• Performance Based Cleanings - the reported default value for number of cleanings of such type during any 24-hour time frame does not currently apply.• Rewrite Based Cleanings - the reported default value for number of cleanings of such type during any 24-hour time frame does not currently apply.	Do not use. Support for these configurations will implemented in a future release.

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)



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/serviceandsupport/get-help/index.aspx#contact-support>
