



Quantum Scalar i6 Release Notes

Product	Scalar® i6
Library Firmware Version	210G.GS107 (i4.1)
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	June 2019

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About This Release

The Scalar i6 i4.1 release is a feature and maintenance release. It includes the following:

- [Resolved Issues](#) (bug fixes)

What's New

The Scalar i6 i4.1 release contains the following new enhancements:

- Module Alignment Test diagnostic added. This diagnostic performs robotic positioning tests. These tests validate module rack joint alignment quality and determines the overall module assembly and alignment quality.
- EDLM policy settings added to Configuration Record report.
- Drive unload failure logging improvements.
- Expired cleaning tape barcodes added to the cleaning tape SNMP trap.

General Information

- 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 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 (Scalar 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.
- Any application or browser connecting over https must support TLS v1.2.

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. 8.0.1
- insightVM 6.4.63

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

FC Full High (FH) Drive Types	Minimum Firmware Version ¹
IBM LTO-6 (FC) (FH) 8 Gb	JAX0
IBM LTO-6 (FC) (FH) 8Gb (FIPS)	JAX0
IBM LTO-7 (FC) (FH) 8 Gb	JAYJ
IBM LTO-7 (FC) (FH) 8 Gb (FIPS)	JAYJ
IBM LTO-8 (FC) (FH) 8 Gb	JAYJ
IBM LTO-8 (FC) (FH) 8 Gb (FIPS)	JAYJ

FC Full High (FH) Drive Types	Minimum Firmware Version¹
¹ Check with Quantum Support for the latest firmware.	

iBlade BaseOS Versions for i4.1 Library Code

The following table provides the iBlade BaseOS versions for the i4.1 library code.

iBlade OS	Quantum Winblade Conversion (Englewood)	Customer BaseOS Download From Web	iBlade SLFTS Application
Linux	N/A	1.3.0-6	2.9.0-7
Windows	1.1.0-16	1.2.0-3	N/A
	Update w/ i4.1		

Tape Drive Driver Versions

The following table provides the tape drive driver versions.

Drive Manufacturer	OS	Approved Version	Comment
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>

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 i4.1 firmware has the following resolved issues:

Change Request Number	Service Request Number	Description	Resolution
61789		EDLM scans were taking too long to complete.	Fixed
67563	408888	No drives available after library firmware upgrade.	Fixed
67754	419332	postgres logging issues	Fixed
68324		Cannot change a partition encryption path diagnostic duration when partition is online.	Fixed
68532	435646	Gen1 Robot PUT issue evaluation.	Resolved
68599	435646	Gen2 Robot PUT issue evaluation.	Resolved
69167		EDLM report shows untested status after EDLM scan.	Fixed
69551	466013	Drive unload failure logging improvements.	Enhancement
69553	466013	Robot PARK command causes issue with gripper retraction.	Fixed
69587 69709	484121 0472853	Library reports unmanaged system fault.	Fixed
69812	475309	Certificates with end dates after 2037 will not validate.	Fixed
69829		EDLM policy settings added to Configuration Record report.	Enhancement
69863		System Control Board (SCB) port eth2 (GB2) does not function.	Fixed
70005	484121	Expired cleaning tape barcodes added to cleaning tape SNMP trap.	Enhancement
70142		Module Alignment Test diagnostic added.	Enhancement

Known Issues

This release of Scalar i6 i4.1 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.
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.
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.

Documentation

The following reference 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

For the most updated information on Quantum Global Services, please visit: www.quantum.com/support