



# Quantum Scalar i6000 Release Notes

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<b>Product</b>	Scalar® i6000, Version i8.4
<b>Firmware Version</b>	617Q.GS01001
<b>Operating Systems (Remote LMC Client)</b>	Microsoft™ Windows® Solaris™ Red Hat® Linux
<b>Supported Web Browsers</b>	Firefox Internet Explorer versions 6, 7, and 8. This release is the last release that supports IE 6.
<b>Required Java Runtime Environment (JRE)</b>	JRE version 6
<b>Date</b>	February 2012

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## Purpose of This Release

This release supports the replacement of end-of-life barcode scanner E1022 with the new EV12 scanner. This is described in [Resolved Issues](#) on page 4.

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## New Features and Enhancements

No new features. New code to support the new EV12 scanner.

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## Compatibility and Support

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### Encryption Key Management Drive Support

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Encryption Option	HP LTO-4	IBM LTO-4	HP LTO-5	IBM LTO-5
Application Managed Encryption	Supported	Supported	Supported (i6000 only)	Supported (i6000 only)
Q-EKM	Not Supported	Requires EKM License	Not Supported	Requires EKM License
SKM	Requires EKM License	Not Supported	Requires EKM License	Not Supported
RKM	Requires EKM License	Not Supported	Requires EKM License	Not Supported

## Firmware Compatibility Matrix

See the following table for information on drive and auxiliary firmware compatibility with this release of Scalar i6000. This information is current as of this product release. For the most up-to-date information on the latest qualified firmware, please visit: <http://www.quantum.com>.

**Release:** i8.4

**Library Firmware:** 617Q.GS01001

**Library Management Console (LMC) Remote Client:** 5.3.3 Build 48<sup>1</sup>

Drive Types	Firmware Version <sup>2</sup>
Quantum SDLT 320 (SCSI)	v100 <sup>3</sup>
Quantum SDLT 600 (FC)	v55 <sup>3</sup>
Quantum DLT-S4	v42
IBM LTO-1 (SCSI)	5AU1
IBM LTO-1 (FC)	5AU1
IBM LTO-2 (SCSI)	A4N0
IBM LTO-2 (FC)	A4N0
IBM LTO-3 (FC) 2 Gb	93GM
IBM LTO-3 (FC) 4 Gb	93GM
IBM LTO-4 (FC) 4 Gb	BBH4
IBM LTO-5 (FC) 8 Gb	BBN2
HP LTO-3 (FC) 2 Gb	L67Z
HP LTO-3 (FC) 4 Gb	M69Z
HP LTO-4 (FC) 4 Gb	H63Z
HP LTO-5 (FC) 8 Gb	I57Z

1. For information about installing the LMC remote client, contact Quantum Support.
2. Check with Quantum Support for the latest firmware.
3. Logical serial number addressing (drive spoofing) is not supported.

## Backup Software Compatibility

To view a list backup software packages that have been tested for interoperability with the Scalar i6000, refer to the *Quantum Software Compatibility Guide* at <http://www.quantum.com/swcompguide.aspx>.

## Resolved Issues

This release of Scalar i6000 firmware resolved the following issues:

Change Request Number	Service Request Number	Description	Solution
32967	1269266	Excessive use of cleaning station in SDLT libraries slows picker down, wears down picker fingers.	Fixed.
35493	1334904	Severity 1 ticket was generated for a non-existent FC I/O blade after firmware rollback.	Fixed.
35924	1360008	No RAS ticket received for RCU that rebooted and failed to reconfigure one of the drives to LME mode.	Fixed.
35970	1362124	Enhancement to the ADI recovery algorithm.	Fixed.
36033		Add shutdown screens introduced on i10/i9.1 to i8.4.	Fixed.
36163		Add unique EDLM scan selections per policy selection.	Fixed.
36282		99% tape usage write pass threshold is too low — too many tapes marked as bad.	Fixed.
36310		EDLM bug, if copy selection is "Copy if tape is bad or suspect" and tape is marked untested it will be copied.	Fixed.
36328		EDLM bug fixes and enhancements that were fixed in i10 were brought over to i8.4. <ul style="list-style-type: none"> <li>• 34565 — EDLM tries to scan incompatible Media when importing or bulk loading media and EDLM Policy</li> <li>• 34997 — If media changed slot locations it is not scanned. Don't base scan on location coordinates. Scan if tape is anywhere in the partition.</li> <li>• 35278 — Starting EDLM with all drive(s) offline does not produce a RAS or error message.</li> </ul>	Fixed.
36571	1372748	Standalone LMC doesn't install on Solaris.	Fixed.

## Known Issues

This release of Scalar i6000 firmware has the following known issues. This list contains *cumulative* information for all previously released Scalar i2000/i6000 library versions.

Change Request Number	Service Request Number	Description	Workaround
16990		Installing Q-EKM with IBM Java disables functioning Sun Java plug-in and i2000 Remote Management Interface (RMI) does not function after Q-EKM install.	Upgrade Q-EKM software to version 251Q.GC00400 or later.
18432		After library software upgrade, an error message states cannot connect to server.	Ignore the error message. Connect again and confirm software was upgraded.
18471		The library SCSI port does not properly terminate when the library is connected via a string of drives.	Do not terminate a string of SCSI drives at the MCB.
18643		When interrupting a move from the cleaning tape back to the cleaning slot, the library does not place media in cleaning slot.	Manually remove the tape from the picker.
18702		Cannot connect to a library with SSL enabled at an HTTPS address.	No workaround. Using SSL causes extreme performance degradation and is not recommended.
21663		When initially enabling Host Port Failover on a FC I/O blade, the user is presented with 2 possible ports to set a the primary port, port 1 and port 2. If the user selects port 1 and sets the new parameter everything works as expected. If the user selects port 2 during initial enable, and sets the new parameter, the value is rejected and the user gets an error message stating that the "Primary port must be online."	For Host Port Failover on a FC I/O blade, port 2 cannot be enabled as the primary port without first enabling port 1 as the primary port. Set port 1 as primary, save the configuration, and then set port 2 as primary.
27400		User can set 7404 FC blade initiator port to 1 Gb/sec when attached to a drive that supports 8 Gb/sec.	1 Gb/sec is not an acceptable setting for higher speed drives; it is an incompatible setting. Choose a higher setting or do not connect 8 Gb/sec drives to an FC I/O blade (recommended).

Change Request Number	Service Request Number	Description	Workaround
29161		On Scalar i6000 libraries, the SCSI port on the MCB does not work. (This is true whether you upgrade from Scalar i2000 or purchase a new Scalar i6000.)	No workaround.
29947		Host loses connection to IBM LTO-5 drives after drive topology is changed to Point-to-Point.	IBM drives must be configured for Loop when configured behind an FC I/O blade or if directly connected to an FC HBA. If the drive is direct connected to a FC switch then the IBM drive can be configured to Point-to-Point, Loop Preferred, or Loop only.
30302		A Scalar i6000 library with IBM LTO-5 FC drives cannot be configured when drives are not FC I/O blade connected and are directly connected to a Fibre Channel switch within a CA_Arcserve 12.5.1 environment.	Set the drives to either Loop Preferred or point-to-point in the Scalar i6000 GUI. Do not set as autonegotiate.
30394		Control path failover function is not supported with Tivoli Storage Manager on an AIX configuration.	It is recommend that you do not use Control Path Failover with Tivoli Storage Manager on AIX since doing so will require manual intervention when it fails over and when you fail it back.  Alternatively, once all TSM jobs have been stopped, use SMIT > Devices > Tivoli Storage Manager Devices > Fibre Channel SAN Attached Devices > Discover Devices Supported by TSM to discover the change in control path. Within TSM, update the path to the library device (e.g., /dev/lb1). The drives and their paths need to be deleted and recreated (the working drive) before backups can resume.
31173		Brocade switch puts data path failover in failover loop.	Use Brocade switch firmware code version 6.2.2e or higher.
31487		Switching drive topology from loop to fabric results in lost changer device when using Brocade switches.	Use Brocade switch firmware code version 6.2.2e or higher.

Change Request Number	Service Request Number	Description	Workaround
32392	1215534 1297050	<p>The device map shows that there was a communication error between the MCB and two FC I/O blades, so the FC I/O blade control LUNs were removed from the device list. When the MCB tried to connect to the drive to write the firmware, it skipped the removed FC I/O blades in the report LUNs scan and could not create a path to the drive.</p> <p>In the past, the FC I/O blades were added and removed every time communication was required. Since i8, the connections are created and there is no recovery if a connection is lost outside of rebooting the FC I/O blade.</p>	Reboot the library.
32816		FRU id "rollup report" graph labels are unreadable	Reduce scope of query.
32818		When generating an Advanced Reporting Tape Alert report graph, the serial number and barcode overwrite each other in the graphical display.	Select a smaller query set, or set the label to one item, for example, Media ID.
32820		Reservations not transferred when FC I/O blade host port fails over.	When the FC ports fail over the host needs to re-login (PLOGI + PRLI) to the FCB. Re-login requires that reservations be re-established.
32821		When setting Host Type to HP_UX and then performing a LUN mapping operation, HP-UX host may require a reboot for it to see and communicate with the devices attached to the I/O blade.	Reboot the HP-UX host.
33297		The library allows you to select tapes located in I/E stations for EDLM testing, but does not actually test them. Then it indicates the test ran, and displays the results as "suspect."	Do not select tapes located in I/E stations for EDLM testing.
33400		EDLM media scans do not complete correctly or do not post correct results if a library inventory is performed at same time as the EDLM scan.	Take the EDLM library managed partition offline when performing a library inventory so that a UI-initiated inventory does not interfere with any EDLM media scans. If a media scan is in process, it will be paused while the EDLM library managed partition is offline, and will continue once the partition is brought online again.

Change Request Number	Service Request Number	Description	Workaround
33403		Once you configure the primary and secondary SKM servers on the library remote web client and encryption keys are generated, if you switch the key servers (i.e., you try to make the primary server the secondary server, or vice versa), SKM will not function.	The library remembers which server is primary and which is secondary. Once configured on the library, do not switch the primary SKM server to the secondary, or vice versa.
33507		After restoring a saved library configuration that has the "Perform scans immediately when media is imported into the library" policy enabled, the library performs a scan on all tapes in the partitions with this policy enabled because the tapes appear as newly imported.	Working as designed. To keep this from happening, deselect the "Perform scans immediately when media is imported into the library" policy before saving the library configuration.
33661		The library allows you to install 4096-bit TLS CA (root) certificate for encryption key management but will not work with it.	Make sure the TLS CA (root) certificate is 2048 bits.
34027		When adding FC I/O blades or EE blades to a library that previously did not have them installed, Ethernet connections were not made between the MCB and the newly installed I/O blades.	When FC I/O blades or Ethernet Expansion blades are installed in the library, the following rules regarding control management blades (CMBs) apply: <ul style="list-style-type: none"> <li>• Any module (including the control module) that contains FC I/O blades or EE blades must also contain a CMB.</li> <li>• A CMB must be installed in the control module and all modules between the control module and the module containing the FC I/O blade or EE blade. The CMB provides daisy-chained Ethernet communication between the Management Control Blade (MCB) located in the control module and the FC I/O blades and EEBs.</li> </ul>
34370		Ticket reports sent directly from library via e-mail contain no data ( <b>Tools &gt; Reports &gt; Tickets</b> , then select <b>Export &gt; Email</b> ). Viewed and saved reports contain data as expected.	Log in from the remote interface and download the file ( <b>Tools &gt; Reports &gt; Tickets</b> , then select <b>Export &gt; Save</b> ). Then e-mail the report as desired.
35493		Upgraded firmware, then rolled back firmware to previous version and received a RAS ticket for a non-existent FC I/O blade.	Manually close the erroneous RAS ticket.



## Documentation

The following documents are currently available for the Scalar i6000.

Document Number	Document Title
6-01244-08 Rev A	<i>Scalar i6000 Addendum</i>
6-66879-01 Rev A	<i>Scalar i6000 User's Guide</i>
6-66882-01 Rev A	<i>Scalar i6000 Planning Guide</i>
6-01847-02 Rev A	<i>Quantum Encryption Key Manager User's Guide</i>
6-01884-02 Rev A	<i>Quantum Encryption Key Manager Release Notes</i>
6-66532-04 Rev A	<i>Scalar Key Manager Quick Start Guide</i>
6-66531-04 Rev A	<i>Scalar Key Manager User's Guide</i>
6-66572-02 Rev A	<i>Scalar Key Manager Safety Information by IBM</i>
6-66535-03 Rev A	<i>Scalar Key Manager Open Source License Agreement</i>

## Contacting Quantum

More information about this product is available on the Service and Support website at [www.quantum.com/support](http://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:

<b>Quantum Technical Assistance Center in the USA:</b>	+1 800-284-5101
<b>For additional contact information:</b>	<a href="http://www.quantum.com/support">www.quantum.com/support</a>
<b>To open a Service Request:</b>	<a href="http://www.quantum.com/osr">www.quantum.com/osr</a>

For the most updated information on Quantum Global Services, please visit: [www.quantum.com/support](http://www.quantum.com/support)