



Quantum Scalar i6000 Release Notes

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| Product | Scalar® i6000, Version i8.3 |
| Firmware Version | 615Q.GS05501 |
| Operating Systems (Remote LMC Client) | Microsoft™ Windows® Solaris™ Red Hat® Linux |
| Supported Web Browsers | Firefox Internet Explorer versions 6, 7, and 8. This release is the last release that supports IE 6. |
| Required Java Runtime Environment (JRE) | JRE version 6 |
| Date | November 2011 |

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Purpose of This Release

- The original CAN controller on the Scalar i2000/i6000 MCB, CMB, and RCU components is now obsolete. A new CAN controller is now being used, and this firmware release provides the new code required to support the new CAN controller.
- This release improves detection of a 7404 FC I/O blade parity issue. This is described in [Resolved Issues](#) on page 5.

New Features and Enhancements

This section contains new features covered by i8.2, i8.2.1, i8.2.2, and i8.3 releases. The *Scalar i6000 Addendum* contains detailed information on the new features.

i6000 i8.3

No new features. New code to support new CAN controller and improved detection of 7404 blade parity issue.

Note: When replacing the MCB, CMB, or RCU, library firmware may need to be at firmware version 615Q.GS05501 or later to support the new CAN controller. Refer to the FRU list for firmware dependencies.

Note: If the new CAN controller exists on the system, you cannot downgrade to a version earlier than 615Q.GS05501.

Compatibility and Support

Encryption Key Management Drive Support

| 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: i8.3

Library Firmware: 615Q.GS05501

Library Management Console (LMC) Remote Client: 5.3.3 Build 48¹

| Drive Types | Firmware Version ² |
|-------------------------|-------------------------------|
| Quantum SDLT 320 (SCSI) | v100 ³ |
| Quantum SDLT 600 (FC) | v55 ³ |
| 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 | B7C0 |
| IBM LTO-5 (FC) 8 Gb | B6W0 |
| 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 |
|-----------------------|------------------------|--|--|
| 34381 | | Unable to use firmware update (FUP) tape to upgrade drive firmware. | Fixed. |
| 34391 | | Replaced HP LTO- 5 drive sled; autolevel location on GUI is wrong. | Fixed — Location corrected. |
| 34705 | | Ethernet settings are incorrectly set to half duplex on reboot. | Fixed. |
| 34748 | | Bad DNS addresses cause I/E station slots to become unavailable. | Fixed. |
| 34954 | | RAS event for 7404 parity error has incorrect information. | Fixed — RAS ticket corrected. |
| 34464 (34395) | | Q-EKM does not work unless you have an SSL connection. The drive returns the following Key/ASC/ASCQ error: "5/ee/02 Encryption - Key Service Not Available" and is unable to decrypt the tape. | Fixed. |
| 34936 34937 | | Parity detection on 7404 I/O Blade PCI-X bus is not enabled. | This release enables PCI-X bus error detection and notification. |

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. |

| Change Request Number | Service Request Number | Description | Workaround |
|-----------------------|------------------------|--|--|
| 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). |
| 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. |

| Change Request Number | Service Request Number | Description | Workaround |
|-----------------------|------------------------|---|---|
| 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. |
| 32392 | 1215534 1297050 | 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. 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. | Reboot the library. |
| 32816 | | FRU id "rollup report" graph labels are unreadable | Reduce scope of query. |

| Change Request Number | Service Request Number | Description | Workaround |
|-----------------------|------------------------|--|--|
| 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. |
| 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. |

| Change Request Number | Service Request Number | Description | Workaround |
|-----------------------|------------------------|--|---|
| 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. | <p>When FC I/O blades or Ethernet Expansion blades are installed in the library, the following rules regarding control management blades (CMBs) apply:</p> <ul style="list-style-type: none"> • Any module (including the control module) that contains FC I/O blades or EE blades must also contain a CMB. • 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. |
| 34370 | | Ticket reports sent directly from library via e-mail contain no data (Tools > Reports > Tickets , then select Export > Email). Viewed and saved reports contain data as expected. | Log in from the remote interface and download the file (Tools > Reports > Tickets , then select Export > Save). 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 | Scalar i6000 Addendum |
| 6-66879-01 Rev A | Scalar i6000 User's Guide |
| 6-66882-01 Rev A | Scalar i6000 Planning Guide |
| 6-01847-02 Rev A | Quantum Encryption Key Manager User's Guide |
| 6-01884-02 Rev A | Quantum Encryption Key Manager Release Notes |
| 6-66532-04 Rev A | Scalar Key Manager Quick Start Guide |
| 6-66531-04 Rev A | Scalar Key Manager User's Guide |
| 6-66572-02 Rev A | Scalar Key Manager Safety Information by IBM |
| 6-66535-03 Rev A | Scalar Key Manager Open Source License Agreement |

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:

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| 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