



Release Notes

Product	Scalar® i40 and Scalar i80
Release Version	i3.1
Firmware Version	135G.GS006
Operating Systems (Remote Web Client)	Microsoft® Windows®: Internet Explorer® 6, 7 and 8; <i>Note:</i> After this release, Internet Explorer 6 will no longer be supported. Mozilla® Firefox® 3.5.x and 3.6.x and later versions Solaris™: Firefox 1.0.6 or later Linux®: Firefox 1.0.6 or later
Date	October 2011

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Purpose of this Release

These release notes describe the product’s new features and enhancements, resolved issues, and currently known issues for the current release. Visit <http://www.quantum.com> for a complete description and information about the Scalar i40 and Scalar i80 tape libraries.

New Features and Enhancements

The following new features are included in this release:

- Developed additional levels of scanning to improve barcode scan accuracy.
- Added robotic position during startup to help prevent an erroneous DT016 ticket.
- Increased SCSI time-out to one minute to ensure host visibility to the tape drive during recovery.
- Suppressed a spurious DT001 ticket on the Scalar i40 library.

Compatibility Matrix

The following table provides information about drive firmware compatibility with the Scalar i40 and Scalar i80 firmware version 135G.GS006. This information is current as of the publication date of these release notes. For the most up to date information on Quantum Global Services, please visit: www.quantum.com/support.

Firmware Compatibility

Component	Firmware Version
Library Firmware	135G.GS006
Robot Control System (RCS)	
XY controller board	300Q.GR012
Picker controller board	300Q.GG007
Drive Types	
LTO-4 Full-height SAS	A63Z
LTO-4 Full-height Fibre Channel	H63Z
LTO-4 Half-height SAS	U55Z
LTO-4 Half-height Fibre Channel	V55Z
LTO-5 Half-height SAS	Z58Z
LTO-5 Half-height Fibre Channel	Y59Z

Software Compatibility

To view a list of which backup software packages have been tested for interoperability with the Scalar i40 and Scalar i80, see the Quantum Software Compatibility Guide at <http://www.quantum.com/swcompguide.aspx>.

Security Scans

Scan	Result
Run Nessus against the i3.x code	No high or medium warnings with i3.x were found on Nessus 4.2.2-build 9129.

General Usage Notes

This section lists guidelines for general system usage.

Description	Guideline
If downgrading firmware, downgrade support includes the present release minus two major versions.	For example, if your library is at version i3.x, firmware downgrades are supported to version i1.x and version i2.x.
Clear Web browser cache after upgrading firmware or applying new license keys.	After upgrading library firmware or applying new license keys, do the following to ensure that the new menus are displayed: 1) Delete all Web browser history. 2) Refresh the Web browser. 3) Log back into the library.
NTP does not work on a Red Hat Linux server using IPv6.	This is an issue with Red Hat Linux, not library firmware. If you are using Red Hat Linux, you cannot use NTP with IPv6.
Using two NTP servers can cause incorrect time calculations.	The current software supports using one, two, or three NTP servers. The recommendation is to use one or three NTP servers (but not two).
On the Scalar i80, when a second power supply is inserted while the library is powered on, diagnostic ticket DT002 – PS Failure is immediately produced for that power supply before the user has a chance to plug the power supply in to an AC outlet. This can cause a false diagnostic ticket for an inserted power supply before applying power.	Close diagnostic ticket DT002 and monitor for recurrence. If the ticket recurs, contact Quantum Support.
The library automatically turns partitions offline when performing certain operations, and turns them back online again when the operation successfully completes. However, if the operation fails, the partitions will remain offline.	Evaluate the issue to determine if and when the partitions need to be brought online again. When you are ready to bring the partitions back online, you must do so manually (from the Web client, select Operations > Partitions > Change Mode).
Avoid manually generating SKM encryption keys on more than five libraries simultaneously as the key generation process is resource-intensive on the server.	Generating keys manually on more than five libraries at once could result in a failure to complete the key generation operation, or interfere with key retrieval operations. If a failure does occur during key generation, wait 10 minutes, then try to start it again. The key generation process will resume from where the error was encountered.

Resolved Issues

This release of the Scalar i40 and Scalar i80 firmware contains the following resolved issues:

Change Request Number	Service Request number	Description	Resolution
29113	n/a	Issues reading certain barcode labels were encountered.	Developed additional levels of scanning to improve barcode scan accuracy.
34235	n/a	During startup, an occasional DT016 error ticket has been reported.	Add robotic position during startup to help prevent an erroneous DT016 ticket.
34663	n/a	Under rare conditions during startup, drives can disappear to the host.	Increased SCSI time-out to one minute to ensure host visibility to the tape drive during recovery.
34858	n/a	During initial startup of an i40 library, a spurious DT001 ticket might be issued.	DT001 ticket is suppressed on the i40 library.

Known Issues

This release of the Scalar i40 and Scalar i80 firmware contains the following known issues:

Change Request Number	Service Request number	Description	Workaround
23978		When manual cartridge assignment is enabled (the default setting), a tape cartridge that is placed into an I/E station slot when the library is turned off is left "stranded" when the library is turned on. The tape is shown as being present in the I/E station slot, but you cannot import or move it, and the Assign I/E screen does not appear on the operator panel to help you assign the cartridge. The library configuration report indicates that the slot is "Unavailable."	Unlock and open the I/E station. Remove the tape cartridge from its slot and place it in a different I/E station slot. Close the I/E station. The cartridge is now available for assignment, and the Assign I/E screen appears on the operator panel.
28530		With Internet Explorer 6 and 7, occasionally Web client menus do not display after logging in. This is very intermittent and seems to happen only after clearing the browser cache and/or rebooting the library.	Refresh the browser.
32761	SR1240150	After clearing the cache and refreshing browser, a user still cannot log in using Internet Explorer to access the Web client.	Login to the Web client using Firefox.
32815		IVT Drive Test fails when the host sends commands to a drive under IVT test.	Do not initiate host commands to drives while performing an IVT drive test.
32897		Issue with Brocade FC switch - data is written to library slowly at 5MB~10MB/sec.	Configure connection as point-to-point.
33083		Media Security alerts are not posted when removing a tape drive or magazine containing media.	No workaround. Media Security does not post alerts on removed components.

Change Request Number	Service Request number	Description	Workaround
33228		Export Current does not export Encryption Key Management (EKM) encryption keys from the library for tape cartridges that were relabeled with new barcode labels.	<p>Since the library will no longer track the old barcode label information associated with the encryption key identifier of the media, users should keep track of any barcode label information that is replaced with new barcode label information, key export operations are performed via the Export Current functionality. Once Export Current operations have been performed and do not contain encryption keys for relabeled tape cartridges, perform selective encryption key export operations for media with the previous barcode label information and import into the new key servers.</p> <p>Alternatively, if tape cartridges have been relabeled and encryption keys will not be exported for such tape cartridges via the Export Current functionality, use the Export Used functionality, to export all encryption keys ever used by the library.</p>
33245		Diagnostic ticket DT180 - EKM Server Software Mismatch posts on a library attached to an SKM server pair with the same software version.	<p>Transient network disconnections can cause DT180 to occur erroneously. If the ticket occurs during normal operations and encrypted reads and writes are working properly, the ticket can be ignored. Contact your network administrator to investigate network-disconnect issues.</p>
33340		The host loses the media changer device after enabling Library Managed Encryption (LME) with Control Path Failover (CPF) enabled.	<p>Enable LME prior to enabling CPF. This action keeps the media changer from being dropped off the host.</p> <p>If CPF is enabled before LME, you can recover by disabling and re-enabling CPF, or rebooting the library.</p>

Change Request Number	Service Request number	Description	Workaround
33406		If EKM and Advanced Reporting (AR) licenses are already installed and Control Path Failover is enabled, reapplying the EKM or AR license key while running backups/restore operations causes backups/restore operations to fail.	Do not reapply licenses while running backups and restore operations.
33495		Host loses the medium changer when changing drive speed on drives with CPF enabled.	Do one of the following: <ul style="list-style-type: none"> • Change the drive speed and enable CPF at the same time. • Disable CPF, change the drive speed, and then enable CPF. • Change drive speed, and then reboot the library.
34912	n/a	For a Scalar i80 library, cannot run an Installation and Verification Test (IVT) when the library is configured for 10 I/E slots. All other valid I/E slot configurations work properly.	Configure the Scalar i80 library for 5, 20, 25, or 40 I/E slots prior to running IVT.

Documentation

The following documents are currently available for the Scalar i40 and Scalar i80.

Document Number	Document Title
6-66545-06	<i>Scalar i40 and Scalar i80 User's Guide</i>
6-66546-07	<i>Scalar i40 and Scalar i80 Quick Start Guide</i>
6-00618-10	<i>System, Safety, and Regulatory Information</i>
6-66773-04	<i>Scalar i40 and Scalar i80 Basic SNMP Reference Guide</i>
6-00423-11	<i>Quantum Intelligent Libraries SCSI Reference Guide</i>
6-01317-10	<i>Quantum Intelligent Libraries SMI-S Reference Guide</i>

Contacting Quantum

More information about this product is available on the Service and Support Web site at www.quantum.com/support. The Service and Support Web site 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:

Telephone Support — Find contact information for your location	http://www.quantum.com/ServiceandSupport/Contacts/ProductSelect/Index.aspx
Service and Support Web site:	www.quantum.com/support
To open an Online Service Request:	www.quantum.com/osr

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

