



# Release Notes

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<b>Product</b>	Scalar® 10K 320A.00004
<b>Date</b>	September 2007

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## Purpose of This Release

The Scalar 10K 320 release includes new features and enhancements that extend its capabilities. These release notes describe these new features and enhancements, as well as currently known issues and issues that were resolved for this release of the product. These notes also provide drive and auxiliary firmware compatibility information. Visit <http://www.quantum.com> for additional information about the Scalar 10K and previous releases.

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## New Features and Enhancements

The Scalar 10K 320 release includes the following new features and enhancements:

- The Scalar 10K tape library now supports the integration of IBM LTO-4 Fibre Channel 4 Gb drives.
- The posting of Tape Alerts is now configurable.
- Tape Alert log data is returned so that SDLC can generate reports.

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## Compatibility Matrix

See the following table for information on drive and auxiliary firmware compatibility with the 320 release of Scalar 10K 320A.00004. This information is current as of this product release. For the most up to date information on Quantum Global Services, please visit: [www.quantum.com/support](http://www.quantum.com/support)

<b>Drive Firmware S10K Release Library Firmware: 320A.00004</b>	
<b>Component</b>	<b>Firmware Version</b>
RMU	210A.00002
Scalar DLC	2.7
AMC/LMC	4.5.1/1.5.1
<b>SNC</b>	
SNC 3000	3.42.18
SNC 5100	4.45.22
<b>Drive Types</b>	
Quantum DLT 8000	V80
Quantum SDLT 220	V94
Quantum SDLT 320 (SCSI)	V96 <sup>1</sup>
IBM LTO-1 (SCSI)	5AU1
IBM LTO-1 (FC)	5AU1
IBM LTO-2 (SCSI)	67U1
IBM LTO-2 (FC)	67U1
IBM LTO-3 (FC) 2G	73P5
IBM LTO-3 (FC) 4G	73P5

<b>Drive Firmware</b> <b>S10K Release</b> <b>Library Firmware: 320A.00004</b>	
<b>Component</b>	<b>Firmware Version</b>
IBM LTO-4 (FC) 4G	75X2
IBM 3590 E1A / H1A / B1A	DOIF_2D4
IBM 3592-J1A	D310_A0D
IBM TS1120	D3I1_B25
AIT-2	0203_001
AIT-3	0209_0001

**Note:** The library assigns 12-character logical serial numbers to 3592-J1A tape drives. If you use IBM Tivoli® Storage Manager (TSM), install a version of the TSM device driver that is *later* than maintenance release 5.2.4.4 (for TSM 5.2) or *later* than 5.3.1.1 (for TSM 5.3) to ensure that TSM can properly identify 3592-J1A tape drives according to their 12-character logical serial numbers.

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## Resolved Issues

This release of Scalar 10K firmware resolved the following issues..

<b>Change Request Number</b>	<b>Service Request Number</b>	<b>Description</b>
<b>Version 320A.00004</b>		
1588		Aux trace screen shows tower numbers in hex.
1589		Need change to display location of print log port.
1727		Inserting AIT-3 tapes always causes retries. Handling too high on the top magazine cell.
2551	342084	Operator Panel warning when moving tapes outside of COD licensed slots.
2603		S10K log file corruptions (various).
2747		History log shows wrong initiator.
2806	427194	When one IE station door is being taught and inventoried the RES to all other IE stations can be incorrect.
2807		Need to have option to speed up I/E station teach operations.
2825		DLT-8000 Sleds incorrectly log a stepper motor task fails to start.
2841		Get/put window test doesn't reserve library, interference with auto reattach.
2844		Get SAC 7C and Library TA flag 13 instead of TA flag 2 when move tape to blocked storage

Change Request Number	Service Request Number	Description
2876		Logical serial number (12 character) causing configuration errors with TSM application.
2911		IVT test does not run LTO move cartridge test in 4th IE.
2931	418156	Library should compare drive fiducial labels with actual sled type.
2938		Service login timeout is handled incorrectly at "service->verify->all->perform all tests" screen if the 'Accept' input is 'y' when the timeout occurs.
2939		Remove fibre channel topology and data rate selection for LTO-1 FC drives.
2974		S10K Tape alert flags are reported incorrectly in the S10K log and need a mechanism to report tape alert log data back to SDLC.
3024	550364	If the IE cable between the IE and the LMC becomes disconnected and a new teach is performed the teach fails with SAC 01, 40, A3.
3031		On large dual aisle systems, it has been observed that tower 13 sometimes fails to teach new on the secondary aisle side.
3032	566896	Serial number and logical serial number are truncated by 1 character on the operator panel.
3038	527016	E_LSC_WFSCRDBF_BAD_READBUFFER_HANDLE is reported with RMU 192 and 304 Library firmware.
3041	622572	If a LTO barcode label is printed in the reverse direction the library incorrectly places the label into the bottom cell and forces a rescan.
3045		Need to merge changes form CR64557(support of LB and LX media for 3592 drives) onto main tree for 320.
3050	582456	On systems with a lot of drives (70+ drives), the Log sense page 3B interferes with vary on of drive causing SAC 71.
3071		Need to add changes (DDC\LDC\LBI boot \appl code problem 313 code) to 320 code.
3073		3592 drive modules power supply diags for the 4th drive bay do not work properly.
3074		S10K 314A FW does not identify media type and usage.
3075		3592 short media returns an incorrect media character through SCSI read element status.
3081		Code can take the library offline and not post an error.
3352		When varying a drive offline the library does not queue a unit attention until the menu is exited. It should queue the UA as soon as the drive has been varied offline and not wait for the user to exit the menu.

## Known Issues

This release of Scalar 10K firmware has the following known issues. This list contains cumulative information for the previously released versions.

Change Request Number	Service Request Number	Description	Workaround
33359	282830	On occasion, the vertical mounting of a 3590 tape drive might be higher than the vertical window expected by the library firmware to successfully scan for the drive fiducial. As a result, the library cannot teach the drive.	Manually adjust the vertical placement of the 3590 tape drive or the front bezel until the library can successfully teach the drive.
40518		When a Teach Current operation is performed for a DM, a drive teach failure can return an incorrect bay number to the Operator Panel.	Physically inspect the drive bay that the failure indicated or possibly the bay that is located immediately before. The bay that is identified by the failure might not exist.
41203		When using a data tape instead of a FUP tape to update a list of drives, the library correctly posts a "BAD FIRMWARE MEDIA" operator intervention message, but continues to the next drive in the list. The operation should fail and not continue.	No applicable workaround is available.
41301		After cleaning cartridges are ejected from drives, the View dialog ( <b>Main MenuSetupCleaningView</b> ) continues to indicate a Valid status for the first cleaning cartridge rather than clearing the status.	Make sure that cleaning cartridges are inserted into the library by using the Insert Clean Tape command ( <b>Main MenuCommands Insert/EjectInsert Clean Tape</b> ). This operation physically inserts the cartridges and also inserts them into the library database.  NOTE: Do not use <b>Main Menu SetupCleaningMedia</b> to perform this operation. This operation inserts the cartridges into the library database only.

<b>Change Request Number</b>	<b>Service Request Number</b>	<b>Description</b>	<b>Workaround</b>
41305		The usage count for the first cleaning cartridge increments when a second cleaning cartridge is used.	Make sure that cleaning cartridges are inserted into the library by using the Insert Clean Tape command ( <b>Main Menu Commands Insert/Eject Insert Clean Tape</b> ). This operation physically inserts the cartridges and also inserts them into the library database.  NOTE: Do not use <b>Main Menu Setup Cleaning Media</b> to perform this operation. This operation inserts the cartridges into the library database only.

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## Documentation

The following documents are currently available for the Scalar 10K.

<b>Document Number</b>	<b>Document Title</b>
6-01023-02 Rev A	Scalar 10K Unpacking Instructions
6-01337-04 Rev A	Scalar 10K Planning Guide
6-00058-05 Rev A	Scalar 10K Operator Guide
6-01338-04 Rev A	Scalar 10K SCSI Reference Manual

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## 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/esupport">www.quantum.com/esupport</a>

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