Quantum

StorNext 7.0.3 Release Notes

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What's New in StorNext 7.0.3

Purpose of this Release

The StorNext 7.0.3 release provides new features and enhancements listed in the section <u>New Features</u> and <u>Enhancements in StorNext 7.0.3 on the next page</u>, and also provides software fixes listed in the section <u>Fixed Issues and Enhancements Addressed in StorNext 7.0.3 on page 5</u>.

Information About StorNext Firmware Upgrades

If your system is running StorNext 7.0.1.1 (or earlier) and you use the StorNext GUI to upgrade your firmware, do the following to upgrade to StorNext 7.0.2 (or later).

Caution: Due to a known file size limitation, if you attempt to upgrade your firmware using the StorNext GUI, the upload of the second firmware file fails with the following error:

```
File upload failed. The request was rejected because its size exceeds allowed range.
```

Do the following to workaround this issue:

1. Modify the **com.icesoft.faces.uploadMaxFileSize** parameter in the **web.xml** file (located in /usr/adic/tomcat/webapps/ROOT/WEB-INF/web.xml) to a value of 6442450944.

Example

```
<!-- Max. file size to upload (4 GB) -->
<context-param>
<param-name>com.icesoft.faces.uploadMaxFileSize</param-name>
<param-value><mark>6442450944</mark></param-value>
</context-param>
```

- 2. Save your changes to the web.xml file.
- Open a root UNIX shell window on your appliance, and run the following command to restart the StorNext GUI:

Note: Wait a few minutes before you try to access the StorNext GUI, and then retry the

command if it fails.

service stornext_web restart

Operating Systems No Longer Supported Effective with StorNext 7.0.3

- Windows 7
- Windows Server 2008

New Features and Enhancements in StorNext 7.0.3

- Added support for ActiveScale Cold Storage.
- Added support for the LTFS media format with LTO-9.
- · Added support for overlay kernels (Chinese hypervisors).
- Improved tape drive error handling.
- Beginning with StorNext 7.0.3, you have a choice to install StorNext software (version 7.0.3 or later) on your own hardware as a Red Hat Enterprise Linux (RHEL) 8 distribution package or as a Red Hat Enterprise Linux (RHEL) 7 distribution package.

New Features and Enhancements to the StorNext Unified User Interface (UUI)

- Added support for F-Series/H-Series 2.0 for all models with F-Series parity to H-Series.
- Updates to the StorNext stripe group management user interface.
- · Updates to the StorNext file system mount management user interface.
- Updates to the StorNext file system checks user interface.
- · Updates to the StorNext disk labeling user interface.
- · Updates to the StorNext cache configuration user interface.
- Updates to the StorNext client software downloads user interface.
- · Updates to the StorNext solutions user interface.
- Added support for NFS shares in the NAS user interface.
- Updated support for QXS models.

- Updates to the WebServices APIs, and related documentation.
- · Expanded QXS model support.
- Improved the compatibility between customer network IP address ranges and UUI docker network subnets.
- Improved the password complexity rules for user passwords.
- · Reliability improvements to installations and upgrades.
- · Security updates.

Compatibility and Support

The <u>StorNext 7.0.3 Compatibility Guide</u> provides the basic compatibility for StorNext 7.0.3, including the StorNext components supported, operating systems and service packs, libraries and drives, browsers, virtual machines, and appliance support. Listed below are just a few of the types of information available to you in the <u>StorNext 7.0.3 Compatibility Guide</u>.

- Upgrade Paths: Provides information on what upgrades to this release are supported.
- Appliance Support: Provides information on what StorNext appliances are supported with this release or are compatible with it.
- Operating Systems and Platforms: Provides information on what StorNext components run on various operating systems and service packs. Also includes which operating systems have been newly added or removed.
- **Client Interoperability**: Provides information on what StorNext clients running other versions of StorNext are compatible with metadata-controllers (MDCs) running this release.
- Virtual Machine Support: Provides information on what StorNext components running on selected operating systems and service packs are supported in virtual machines.
- Compatibility with Other Products: Provides information on references to additional StorNext soldseparately products that are supported with this release.
- **Browser Support**: Provides information on what versions of browsers are supported with the GUI in this release.
- **Drives and Libraries**: Provides information on what Quantum and 3rd party drives and libraries are supported with this release.

Fixed Issues and Enhancements Addressed in StorNext 7.0.3

Operating System	Change Request Number	Service Request Number	Description
All	79789	651524	Add support to handle cvfs entries with noauto option in /etc/fstab.
All	79845	645191	Bug found in mysql version 5.7.29 that crashes SNSM and requires upgrade to latest 5.7.33 release.
All	79779	624841, 642955, 642955	qrdb_flush_thread_fn() should not panic with in-core clusters maxed out.
All	79780	630660	Tech-speak RAS event - Communication failure, throttling input for SNFS Client,too many requests queued.
All	79782	631529	Invalid "server' license message gives no indication of offending host
All	79785	474317, 547498	hang in mmap fault handling when file is accessed on multiple clients
All	79795	621924	Metadata restore failed but the problem went unnoticed because no RAS event was issued and FSM did not exit
All	79796	614740	fsobjcfg command failed with "Too many non-option arguments entered" error but not which option failed.
All	79802	529097, 601617	SN updates: new version of LTFS library (2.4.0 from 2.2.0).
All	79814	630355	Add "mediumPrefix" to the fsmedinfo.xsd.
All	79815	596496	sncompare: enhancements to aid in the detection of various database problems.
All	79823	556590, 587199	sncompare: Add check if file is on disk to all tests and if appropriate report as missing.
All	79827	555039	Bug 70359 sncompare should escape single quotes and other special chars in filenames and paths, in order to ensure repair*.sql won't fail.

Fixed Issues and Enhancements Addressed in StorNext 7.0.3

Operating System	Change Request Number	Service Request Number	Description
All	79830	473642	sncompare continually asks for confirmation if run in background and fills disk with logs.
All	79831	514118	StorNext should not allow setting the immutable attribute on a socket.
All	79845	645191	Bug found in mysql version 5.7.29 that crashes SNSM and requires upgrade to latest 5.7.33 release.
All	79846	n/a	TSM should take tape unavailable if media is nearing it's limit.
All	79927	647369	When cloud error 409 causes a retry request to AS, checksum failed on retrieval and the file was corrupted.
All	79987	653080	Ubuntu 20 client is not listed in the GUI as available.
All	80030	578812	fsrecover can not recover files if multiple versions from a file are stored in the database and the create_info can not be used.
All	80095	657659	cvfsdb fails to display sb_FsStatus bits properly with CVFS 7.x.
All	80105	658676	Baidu: Issue with setting attributes.
All	80170	656587	sgoffload fails for file systems with large number of removed inodes.
Linux	79829	3361258, 546108, 563947	running quotacheck can cause OpHangLimit fsm crash.

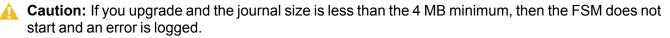
Supported StorNext Upgrade Paths and Upgrade Considerations

StorNext Software Upgrade Matrix

For information on which StorNext versions allow you to upgrade directly to this release, refer to the **StorNext Software Upgrade Matrix** section in the <u>StorNext 7.0.3 Compatibility Guide</u>.

Journal Size Guidelines

StorNext 7.0.3 requires a minimum journal size of 4 MB (Quantum recommends you configure your journal size to 64 MB). If your file system has a journal size less than the 4 MB minimum, you must resize your journal size before you upgrade to StorNext 7.0.3.



Use the **cvupdatefs** utility (see the <u>StorNext 6 Man Pages Reference Guide</u>) or the GUI (see <u>Edit a File</u> <u>System</u>) to resize your journal size. When you resize your journal size, the new size must be 16 MB or greater. File systems with journals between 4 MB and 16 MB run with StorNext 7.0.3, but Quantum recommends you configure your journal size to 64 MB.

Distributed Data Mover (DDM) Guidelines

Distributed Data Movers (DDMs) must be upgraded to the same version of StorNext that the Metadata Controller (MDC) is running.

WARNING: Upgrades (such as platform, service pack, and so on) are intended to be done to all systems present in a given deployment. For example, if Xcellis, M660, M440, Pro Foundation, G300, and Artico are present, they all must be upgraded. One appliance cannot be "left behind".

Considerations When Upgrading NFS Server Nodes to StorNext 7.0.3

Due to the fact that the full 64-bit inode numbers are exposed to Linux after Linux clients are upgraded to StorNext 7.0.3, special consideration must be made for Linux NFS servers.

To prevent issues with mounted NFS clients, NFS clients must be unmounted prior to upgrading StorNext on the NFS server. If unmounting all NFS clients is not an option during the upgrade, Quantum suggests using the "compat32" mount option on NFS servers.

Compatibility Between StorNext and Other Products

The following sections provide information regarding compatibility between this release and StorNext components and features.

Appliance Controller

To view supported Appliance Controller software configurations, see the <u>StorNext 7.0.3 Compatibility</u> <u>Guide</u>.

Infiniband

Infiniband installations require assistance from the Quantum Professional Services team, a Service Partner, or a Quantum Service Provider. For additional information, contact <u>Quantum Technical Support</u>.

ActiveScale or Lattus

See the <u>StorNext 7.0.3 Compatibility Guide</u> in the <u>StorNext Documentation Center</u> for information about compatibility between ActiveScale or Lattus, and StorNext 7.0.3.

Note: ActiveScale and Lattus documentation is available online at <u>https://www.quantum.com/documentation</u>.

Partial File Retrieval

StorNext Partial File Retrieval (PFR) is a product which enables you to quickly retrieve and utilize segments of large media files, rather than the entire file, based on time-code parameters.

Note: For Quantum Cloud Storage, PFR is not supported for copies with client-side encryption or compression. It is only supported for copies with server-side encryption or without encryption and compression.

For information about compatibility between PFR and StorNext 7.0.3, see the *StorNext Partial File Retrieval Compatibility Guide* in the <u>StorNext Documentation Center</u>.

StorNext Web Services

StorNext Web Services enables you to run third-party application program interfaces (APIs) with StorNext. To view the latest commands supported by the StorNext Web Services, refer to the <u>StorNext</u> <u>Web Services Guide</u> in the <u>StorNext Documentation Center</u>.

Apple Xsan

Xsan is software that enables multiple Mac computers to concurrently access hundreds of terabytes of content on Xserve RAID or Promise RAID storage over high-speed Fibre Channel which allows you to share data faster and consolidate projects. Quantum supplements this solution with StorNext data management software, enabling Apple Xsan customers to use applications running on Windows, Linux, and UNIX with their Xsan and share content across more systems.

For information about compatibility between Apple Xsan and StorNext 7.0.3, refer to the <u>StorNext 7.0.3</u> <u>Compatibility Guide</u> in the <u>StorNext Documentation Center</u>.

Supported Browsers

For information on browsers supported with the StorNext GUI for this release, refer to the <u>StorNext 7.0.3</u> <u>Compatibility Guide</u> in the <u>StorNext Documentation Center</u>.

For all other components and features, see the <u>StorNext 7.0.3 Compatibility Guide</u> in the <u>StorNext</u> <u>Documentation Center</u>.

General Considerations

This section provides information about items to consider for StorNext 7.0.3.

Checksum Performance Considerations

(i) Note: Generating MD5 checksums is a CPU-intensive operation.

Current StorNext metadata controller and Mover hardware is able to calculate MD5 checksums at around 300 MB/s to 500 MB/s. For newer generation tape technology, the maximum throughput might exceed the rate at which the system can generate checksums. In this case, the MD5 checksum calculation will define the throughput of a single data movement operation. With multiple movement streams, MD5 calculations will be done in parallel across the streams and aggregation of performance will be seen.

Upgrading Appliances

Caution: If you have a Replication, Deduplication, or Object Storage license, see Change Request
 <u>Known Issues below</u> in the <u>StorNext Installation, Replication, HA, and Other Known Issues on</u>
 page 23 section before you upgrade.

For instructions on upgrading your firmware, see <u>Upgrade the System (Upgrade Firmware)</u> on the *Appliance InfoHub Documentation Center* (www.quantum.com/ApplianceInfoHub).

Appliance Release Notes

Refer to the respective Release Notes document for important information you should know about your system.

- <u>Xcellis Workflow Director</u>
- Xcellis Workflow Extender
- Xcellis Foundation
- Artico

Known Issues

The following sections list known issues in this release of StorNext, as well as associated workarounds, where applicable:

Note: If you encounter one or more of the issues listed in this section, please contact Quantum Customer Support and report the issue(s) you encountered. Also inform the support representative whether you were able to successfully work around the issue(s) by using the provided workaround. Doing these things will help Quantum prioritize the order in which known issues are addressed in future StorNext releases.

StorNext File System Known Issues

The table below lists known issues specific to the StorNext File System.

Operating System	Change Request Number	Service Request Number	Description/Workaround
All	54834	3505208, 3516356	If a file is being copied to the StorNext file system using Windows Explorer and Windows Explorer crashes before it finishes copying all the data, the file might contain data blocks from old, deleted files. This problem occurs because Windows Explorer sets EOF to the size of the file before it writes the data to the file. This leaves a gap of uninitialized data in the file.
			Note: This problem can also occur with other programs that set EOF beyond the end of data.
			This problem does not occur if Windows Explorer encounters an error while writing the file; Windows Explorer will delete the partially written file.
			Workaround:
			To prevent this problem from occurring on StorNext, you can use the StorNext "client configuration" application's advanced mount option "Restrict Pre-allocation API" on Window systems and the "protect_alloc=yes" mount option on Linux systems. This option will set the unwritten parts of the file to zero. When this option is set, non-root users are unable to use the preallocation ioctl. This option also implies sparse=yes.
			For more information on this option, see the man page $mount_cvfs(8)$. The sparse option will introduce some overhead when using Windows Explorer. Before setting the protect_alloc option, see the sparse option in mount_cvfs(8) for a description of how it changes StorNext behavior.

Operating System	Change Request Number	Service Request Number	Description/Workaround
All	67363	n/a	StorNext 5.4.0.x incorrectly allowed the Unix ID Mapping type to be set to none when the Security Model is set to acl . As a result, file systems fail to start when the Unix ID Mapping type is set to none when the Security Model is set to acl .
			Beginning with StorNext 6, the FSM does not start when this invalid combination of settings is used. Workaround :
			To prevent this issue, set the Unix ID Mapping to either winbind or algorithmic for any file system where the Security Model is set to acl . You can make the adjustment before or after upgrading.
All	75140	n/a	Exporting an SNFS file system on Ubuntu releases 16.04.2 or later is not supported.
			Workaround There is currently no workaround for this issue. If you experience this issue, contact Quantum Technical Support.
All	75633	n/a	A StorNext NAS client cannot rename a file if the file has the read-only attribute set. This problem only affects StorNext NAS clients.
			Workaround
			A StorNext NAS client must remove the read-only attribute before it can rename the file.

Operating System	Change Request Number	Service Request Number	Description/Workaround
All	78082	575600	If you set the parameter audit=true in the file system configuration file, the result causes all I/O activity, including reads, to be recorded in the mdarchive . This can greatly increase the number of updates applied to the mdarchive which, in turn, increases the amount of mdarchive compaction activity by the FSM.
			There is one instance where this increased compaction activity caused the mdarchive to grow beyond the capacity of the HA shared file system.
			Workaround
			To work around this issue, Quantum recommends you increase the parameter metadataArchiveCache from the default 2 GB to at least 4 GB, but preferably larger when setting audit to true in the configuration file.
macOS	66948	322824, 336945	If you access StorNext file systems from Apple Xsan clients, then you might encounter I/O error messages in the system log that do not contain details about real I/O errors detected on the Xsan client.
			Workaround
			If you encounter the errors on an Xsan client, contact Apple.

Operating System	Change Request Number	Service Request Number	Description/Workaround
macOS	75819 n/a	n/a	An Xsan client cannot mount a StorNext File System volume when a cluster number is included in the local fsnameservers file. An unexpected EOF reading reply error is displayed.
			<pre># xsanctl mount snfs3</pre>
			xsanctl: unexpected EOF reading reply
	•	If you encounter the EOF error on your Xsan client, do the following workaround to prevent the issue.	
			Workaround
		r I	If your MDC fsnameservers file includes a cluster number, remove the cluster number (@_cluster_xx) from the mysan.configprofile file before you copy the file to the Xsan client.
	For example, change:	For example, change:	
		10.65.181.158@_cluster(10.65.181.158@_cluster0
	to 10.65.181.158	to	
			10.65.181.158
			See Mount the StorNext File System on Xsan 5.0 (or later)
			for additional information.

StorNext Storage Manager Known Issues

The table below lists known issues specific to StorNext Storage Manager.

Operating System	Change Request Number	Service Request Number	Description/Workaround
All	43320	1581004	File retrieves from media to disk can be suboptimal for fast tape drives like the Oracle STK T10K drives. This scenario can occur when the retrieve event is initiated on a host that is different from the host running the mover process, which requires the use of synchronous direct I/O.
			Workaround:
			To work around this issue and achieve optimal performance for both file stores and retrieves with the T10K drives, increase the default I/O size used by the mover process and make the mover process use asynchronous buffered I/O when the use of synchronous direct I/O is not required, using the following steps:
			Note: This workaround might also help improve the performance of the faster LTO drives by updating the FS_LTO_BLOCK_FACTOR system parameter.
			Note: Changes to FS_xxx_BLOCK_FACTOR only affects tapes formatted after the change.
			 Change the FS_T10K_BLOCK_FACTOR system parameter from 8 to 32 by adding the following entry to /usr/adic/TSM/config/fs_sysparm_ override:
			<pre>FS_T10K_BLOCK_FACTOR=32;</pre>
			Note: The T10K default I/O block size is 512 KB or 8 * 64 KB. With the block factor changed to 32, the new T10K I/O block size will be 2 MB or 32 * 64 KB. Presently, the FS_T10K_BL0CK_FACT0R system parameter must not be set to a value that exceeds 32.
			 Restart Storage Manager to ensure the change in Step 1 goes into effect:
			<pre># tsmstop # tsmstart</pre>

Operating System	Change Request Number	Service Request Number	Description/Workaround
			 Verify the FS_T10K_BLOCK_FACTOR system parameter contains the new value:
			<pre># showsysparm FS_T10K_BLOCK_FACTOR FS_T10K_BLOCK_FACTOR=32</pre>
			 Save the current copies of your /etc/fstab on the MDCs and the DDM clients.
			 Modify /etc/fstab on the MDCs and the DDM clients to use the auto_dma_write_length and auto_dma_read_length mount options as follows:
			<pre>snfs1 /stornext/snfs1 cvfs rw,auto_dma_write_length=16m,auto_ dma_read_length=16m 0 0</pre>
			6. Unmount and re-mount your file systems.
			 Use new T10K media to store a copy of the file from the disk.
			 Note: Step 7 is very important; when the new copy is made to the new tapes, the new tapes are labeled with a 2 MB block size, which is used for subsequent writes or reads to and from the media. Tapes on which fsformat was run before the change will use the block factor in use at that time. This change will not impact those tapes.

Operating System	Change Request Number	Service Request Number	Description/Workaround
All	46693	n/a	Executing the command snbackup -s while a full or partial backup is running might result in a message that /usr/adic/TSM/internal/locks/backup.lf is in an invalid format.
			This is due to the snbackup -s process reading the backup.1f status file while the backup process is updating it.
			Workaround:
			Ignore the message; to clear-up the process, re-execute the command snbackup -s (provided that the backup is not writing to the backup.1f status file while snbackup -s is trying to read it again).
All	47833	n/a	When copying files between media using the CLI command fsmedcopy , the file is not re-segmented to match the segment size of the destination media. Rather, the original segments are copied to the target media type and the distribution of segments across destination media will, therefore, be the same as the distribution on the source media.
			Note: This behavior might cause file data segment distribution to be sub-optimal on the destination media.
			Workaround:
			Currently, a workaround does not exist for this known issue.

Operating System	Change Request Number	Service Request Number	Description/Workaround					
All	69265 n/a	69265 n/a	69265 n/a	69265 n/a	69265 n/a	69265 n/a	65 n/a	Your DDMs might experience a timeout if you try to connect to the database. The issue is identified by an error log in /usr/adic/TSM/logs/tac which contains the text:
		try usu tro val val def	Process fs_moverd on <host> timed out trying to connect to the database. This usually indicates network connectivity trouble. Try increasing the timeout value by setting the connect_timeout value in /usr/adic/mysql/my.cnf. The default setting is 10 seconds so the new value should be larger.</host>					
			Workaround:					
			 Increase the database connection timeout value by adding the following line to /usr/adic/mysql/my.cnf under the section labeled [mysqld] connect- timeout=240. 					
			2. Cycle the Storage Manager in order to pick up the updated timeout value.					
All	69341	n/a	If you have the IBM APFO driver installed and configured, then when you perform an fsmedread operation of a partial tape block from a full tape block, the operation can fail with errno=12 .					
			i Note: This issue affects all IBM APFO versions 3.0.19 and earlier, and has an impact primarily on disaster recovery procedures.					
			Workaround:					
			To correct this, perform an fsmedread operation without the IBM APFO driver.					

Operating System	Change Request Number	Service Request Number	Description/Workaround
All	72993	452722	When DDM is enabled for non-primary systems, kernel error messages are logged for reservation conflict because the Primary MDC mounts the tape which sets the reservation to itself and the DDM sets the reservation to itself once the tape is ready.
			This issue causes a benign message in the /var/log/messages file for reservation conflict. Since the unmounting of the tape also resets the reservation back to the primary MDC, this message is generated the next time a DDM (non-primary MDC) accesses a tape.
			Note: This issue can result in a large amount of log messages on any machine running DDMs.
			Workaround:
			To workaround this issue, you can filter and drop the messages so they are no longer logged, as follows.
			Note: Reservation conflicts that are a problem also produce RAS alerts, so you can also drop these errors.
			Create the following rules on all DDM clients, based on the OS, to drop the messages from rsyslog :
			For RedHat 6
			<pre># echo ':msg, contains, "reservation conflict" ~' > /etc/rsyslog.d/ignore- reservation-conflict.conf</pre>
			<pre># service rsyslog restart</pre>
			For RedHat 7
			<pre># echo 'if \$programname == "kernel" and \$msg contains "reservation conflict" then stop' > /etc/rsyslog.d/ignore- reservation-conflict.conf</pre>

```
# systemctl restart rsyslog.service
```

StorNext GUI Known Issues

The table below lists known issues specific to the StorNext GUI.

Operating System	Change Request Number	Service Request Number	Description/Workaround
All	69360	n/a	Using autofs to mount a StorNext file system on an MDC is not supported when the same file system also has a native mount point.
			For example, if the StorNext file system snfs1 is mounted as / stornext/snfs1 , then the MDC should not also have an autofs configuration that mounts it on the MDC in another location such as / space/snfs1 . Doing so, causes the fsCheckAffinities and fsCheckTsmFilesystemConfig health checks to fail and generate RAS tickets.
			Additionally, this might cause the StorNext GUI to fail unexpectedly for certain operations. Workaround :
			There is currently no workaround for this issue. If you
			experience this issue, contact <u>Quantum Technical Support</u> .

Operating System	Change Request Number	Service Request Number	Description/Workaround								
All	69958	373823	There is a known issue where stripe group expansion using the StorNext GUI can fail and requires manual intervention to restore file system operation.								
			Stripe group expansion allows an additional disk (LUN) to be added to an existing stripe group, growing the file system user data space.								
			The other way to add space to a file system is to create a new stripe group and add this to the file system.								
			When the GUI executes stripe group expansion, it stops the file system, modifies the configuration file and runs cvupdatefs . If cvupdatefs takes more than 5 minutes to complete, the GUI kills the cvupdatefs utility and reports an error. At this point the file system does not start because the configuration file does not match the current state of the metadata.								
			Workaround:								
			To address this issue, you can do one of two things:								
											 Optimally, you would not attempt the stripe group expansion at all. Instead add a new stripe group to the file system.
			 If stripe group expansion is deemed necessary, use the cvupdatefs CLI directly instead of through the GUI. This method does not have any time limitations. 								
			In the case that the StorNext GUI attempt was made and hit the 5 minute timeout, file system operations can be resumed by performing the following:								
			 Restore the previous version of the configuration file. This can be found in the following directory: 								
			/usr/cvfs/data/ <fs>/config_history</fs>								
			2. Run the cvfsck utility to verify and potentially correct the metadata.								
			3. Start the file system.								

Operating System	Change Request Number	Service Request Number	Description/Workaround		
All	79549	n/a	You cannot use the StorNext GUI to configure or modify a policy class with the GOOGLES3 media type. The process fails with an error similar to the following:		
			Failed to create storage policy or some of its attributes, e.g. associated directories and schedules.		
			Failed to update steering parameters for Copy [1] for Media Type [GOOGLES3]. Verify that the Media Type and Media Format is correct for each copy defined on the Steering tab.		
					Workaround:
			To workaround the issue, Quantum recommends you use the GOOGLE media type rather than the GOOGLES3 media type, not only because the GOOGLES3 media type provides very limited functionality compared to the GOOGLE media type, but also because you cannot use the StorNext GUI to configure or modify a policy class with the GOOGLES3 media type. However, if you have to use the GOOGLES3 media type, then use the CLI fsaddclass command to configure a policy class and the fsmodclass command to modify an existing policy class.		

Operating System	Change Request Number	Service Request Number	Description/Workaround
All	All 80068	n/a	The status and capacity monitors for file systems, libraries, storage disks, and tape drives does not display data on the StorNext GUI <u>home page</u> . This issue is caused as a result of missing font RPM packages on your system. Workaround :
			To workaround the issue, Quantum recommends you do the following:
			 Install the java-1.8.0-openjdk package on your system:
			yum install java-1.8.0-openjdk
			2. Restart the Apache Tomcat service:
			<pre>systemctl restart stornext_web</pre>
Linux	47954	n/a	The Safari browser becomes unresponsive when you attempt to configure an Email server using the StorNext GUI.
			Workaround:
			To workaround this issue, perform the following procedure:
			1. Shut down the Safari browser window(s).
			Restart the Safari browser, and then retry the operation.
			 Uncheck the Verify SMTP Server Connectivity box, and then retry the operation.
			4. Set Authentication to NONE , and then retry the operation.
			 Disable the Safari User names and passwords AutoFill under Safari > Preferences > AutoFill, and then retry operation.

StorNext Installation, Replication, HA, and Other Known Issues

The table below lists known issues specific to StorNext installations, data replication, HA systems, and other areas.

Operatin g System	Change Reques t Number	Service Reques t Number	Description/Workaround
All	68849	n/a	After an appliance firmware upgrade, you might be unable to use previously functioning tape devices because the lin_tape device driver was automatically unloaded during the upgrade. Workaround: To workaround this issue, rebuild the lin_tape device driver as shown in the following example:
			<pre>rpm -e lin_taped rpm -e lin_tape rpmbuildrebuild /root/lin_tape-1.76.06- 1.src.rpm rpm -ivh /root/rpmbuild/RPMS/x86_64/lin_tape- 1.76.06-1.x86_64.rpm rpm -ivh /root/lin_taped-1.76.0-rhel6.x86_64.rpm</pre>

Operatin g System	Change Reques t Number	Service Reques t Number	Description/Workaround	
All	78382	n/a	Quantum installs a self signed certificate (valid for 365 days) in /usr/cvfs/config/certs/ only when installing a snfs-common RPM and if a preexisting certificate file does not exist.	
			If you use monitoring software (for example, Zabbix), an expired self signed certificate is flagged after it expires. Workaround:	
			To workaround this issue, do the following to update an expired self signed certificate:	
			1. Stop CVFS on the affected client:	
			<pre># service cvfs stop</pre>	
			2. Update the certificate:	
			<pre># cd /usr/cvfs/config/certs</pre>	
			<pre># mv server.crt server.crt.orig</pre>	
			<pre># mv server.key server.key.orig</pre>	
			<pre># openssl req -x509 -newkey rsa:2048 -keyout server.key -out server.crt -days 365 -subj "/C=US/ST=California/L=SanJose/O=Quantum/OU=De mo/CN=`hostname`" -nodes</pre>	
			3. Start CVFS on the affected client.	
			<pre># service cvfs start</pre>	

Contacting Quantum

Contacts

For information about contacting Quantum, including Quantum office locations, go to:

https://www.quantum.com/aboutus/contactus/index.aspx

For further assistance, or for training opportunities, contact the Quantum Customer Support Center:

Region	Support Contact
North America	1-800-284-5101 (toll free) +1-720-249-5700
EMEA	+800-7826-8888 (toll free) +49 6131 324 185
Asia Pacific	+800-7826-8887 (toll free) +603-7953-3010
For worldwide support:	

For worldwide support:

https://www.quantum.com/serviceandsupport/get-help/index.aspx#contact-support

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To provide comments or feedback about this document, or about other Quantum technical publications, send e-mail to:

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