



Product Bulletin 86

Product	StorNext® 4.3.1 and all prior versions
Summary	Checksum information for a file is dropped during tape consolidation.
Date	March 2013

Problem

All StorNext versions with Storage Manager that are running or have at some point in the past been running any version prior to StorNext 4.3.2 may be affected if they have the checksum generation feature enabled for a policy class.

If the checksum feature is enabled for a policy class, and a file or files are copied to another media using either **fsmedcopy** or **fsfilecopy**, the checksum information that had been stored for the given copy of the file could be dropped.

For more information, contact the Quantum Technical Assistance Center and reference **CR 40169**.

Symptoms

The most common symptom for this problem is that the command:

```
fsfileinfo -c <filename>
```

will not display a checksum value for the affected copy of the file. The same output will however show the checksum for the copy on the media that did not have consolidation run on it, as shown here:

```
-----  
File Information Report                               Mon Jan  7 13:09:56 2013  
Filename: /stornext/snfs1/policyClass1/fileName  
Stored path: <same>  
-----
```

Last Modification: 07-jan-2013 13:01:26

Owner:	root	Location:	DISK AND TAPE
Group:	root	Existing Copies:	2
Access:	664	Target Copies:	2
Target Stub:	0 (KB)	Existing Stub:	n/a
File size:	1024	Store:	MINTIME
Affinity:	n/a	Reloc:	MINTIME
Class:	policyClass1	Trunc:	MINTIME
		Clean DB Info:	NO
Media:	000021(1)	000022(2)	
Checksum:	b1946ac92492d2347c6235b4d2611184(1,1) <blankValueForMissingChecksumForCopy2>		

Solution

In StorNext 4.3.2, a new option was added to both the **fsmedcopy** and **fsfilecopy** commands. The new option will instruct **fsmedcopy** or **fsfilecopy** to generate a new checksum while copying the file to the destination media.

Note: The commands will not correct files stored previous to 4.3.2. See **Workaround**, below.

Workaround

Once StorNext is upgraded to 4.3.2, the files on the affected media can be copied again, but using the new option '-G [y|n]', as shown here:

```
fsmedcopy -r -G y sourceMediaID
```

The files copied from the source to the destination media will have their checksums regenerated on the destination media.

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Contacting Quantum

More information about StorNext is available on the Quantum Service and Support website at www.quantum.com/ServiceandSupport. The Quantum 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, contact the Quantum Technical Assistance Center:

United States	800-284-5101 Option 5 (toll free)
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Online Service and Support	www.quantum.com/OSR
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