

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></same> | | | | | |
| | | | | | |

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|--------------|---|-------------------|---------------|
| 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: 0000 | 21(1) | 000022(2) | |
| Checksum: | b1946ac92 | 492d2347c6235b4d2 | 611184(1,1) |
| | <blankval< td=""><td>ueForMissingCheck</td><td>sumForCopy2></td></blankval<> | ueForMissingCheck | sumForCopy2> |

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.

Bulletin and Alert Automatic Notification

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Go to this location to sign up for automatic notification:

www.quantum.com/stornextbulletins.

Contacting Quantum

More information about StorNext is available on the Quantum Service and Support website at <u>www.quantum.com/ServiceandSupport</u>. 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) |
|----------------------------|--|
| EMEA | 00800 7826 8888 (toll free) 49 6131 3241 1164 |
| Online Service and Support | www.quantum.com/OSR |
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