



# Product Bulletin 64

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<b>Product</b>	StorNext® 4.1 and all prior versions
<b>Summary</b>	Recommendation for saving StorNext logs
<b>Date</b>	February 2011

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## Problem

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Resolving issues involving StorNext sometimes requires old log data to be available. For example: A problem accessing data on a tape may require logs from the time the tape was written. (This issue does not apply to StorNext File System-only systems without Storage Manager.)

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## Symptoms

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The default logging configuration saves data for approximately one month, depending on activity levels. Quantum recommends that log data be kept for a minimum of two years.

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## Solution

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Configure “cron” to periodically copy log files to a managed directory from which they will be stored. The following steps cause TSM and MSM tac log files to be stored.

A new storage manager class named `_snsnm_log_backup` will be created, which will require additional media or `sdisk` space. The size of the data stored depends on activity levels. The backed-up logs will be compressed to approximately 1/20th of their original size before being stored.

Identify the managed file system containing the `.ADIC_INTERNAL_BACKUP` directory (typically `/stornext/snfs1`.) See the `BACKUPFS` environment variable in `/usr/adic/TSM/config/fs_sysparm` to determine the directory. Change `/stornext/snfs1` (or whatever your directory is named) as necessary to the appropriate file system name.

- 1 If this is a High Availability (HA) configuration, perform the following `mkdir` on both MDCs:

```
# mkdir -p /stornext/snfs1/.SNSM_LOG_BACKUP/`/bin/hostname`
```

2 fsaddclass and fsaddrrelation must be done on only the active MDC:

```
# fsaddclass -d 1 -f i -m 5 _snsm_log_backup
```

3 fsaddrrelation may need to unmount or mount /stornext/snfs1, depending on file system contents. The following command is all one line with a space after -c.

```
# fsaddrrelation /stornext/snfs1/.SNSM_LOG_BACKUP -c  
_snsm_log_backup
```

4 Modify the DEF\_SIZE environment variable in /usr/adic/util/sn\_log\_update.cfg (in an HA configuration this must be done on both MDCs):

Old:

```
# Default size at which logs are rolled (in bytes)  
DEF_SIZE=2000000
```

New:

```
# Default size at which logs are rolled (in bytes)  
DEF_SIZE=10000000
```

5 Save the original crontab for user "tdlm" so it may be restored if an error occurs while updating the tdlm crontab entry:

```
# /usr/bin/crontab -l -u tdlm > /tmp/crontab.tdlm.save
```

6 Replace the existing tdlm crontab sn\_log\_update entry using "/usr/bin/crontab -e -u tdlm" on the active MDC. The following command is all one line. There is a space preceding every hyphen (-), every occurrence of /usr/adic and every occurrence of /stornext/snfs1.

```
55 * * * * /usr/adic/www/bin/cmdwrap  
-NO_END_OF_FILE /usr/adic/util/sn_log_update  
-s /stornext/snfs1/.SNSM_LOG_BACKUP`/bin/hostname` /usr/adic;  
/usr/adic/www/bin/cmdwrap  
-NO_END_OF_FILE /bin/gzip /stornext/snfs1/.SNSM_LOG_BACKUP`/bin/  
/hostname`/?SM/logs/tac/tac_00.??:?:20?:?:?:?:??
```

**Important:** For systems running StorNext 4.x, replace /usr/adic/www/bin/cmdwrap with /usr/adic/gui/bin/cmdwrap in both instances above.

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**Caution:** These changes may need to be reapplied if StorNext is reinstalled or upgraded. This includes the cmdwrap modification above if systems are upgraded from StorNext 3.x to StorNext 4.x.

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## Contacting Quantum

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More information about StorNext is available on the Quantum Service and Support website at [www.quantum.com/ServiceandSupport](http://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:

<b>North America</b>	+1 800-284-5101 Option 5
<b>EMEA</b>	00800 9999 3822
<b>Online Service and Support</b>	<a href="http://www.quantum.com/OSR">www.quantum.com/OSR</a>
<b>World Wide Web</b>	<a href="http://www.quantum.com/ServiceandSupport">www.quantum.com/ServiceandSupport</a>

(Local numbers for specific countries are listed on the Quantum Service and Support Website.)