

VERITAS File System™ 3.3.3

Release Notes Addendum for QuickLog 1.2

Solaris

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VERITAS File System Release Notes

Addendum for QuickLog 1.2

This addendum provides information on VERITAS QuickLog™ Version 1.2, to be used on VERITAS File System™ (VxFS) Release 3.3.3 for Solaris 2.5.1, Solaris 2.6, Solaris 7 (32-bit and 64-bit), and Solaris 8 (32-bit and 64-bit) operating systems.

Review this entire document before installing QuickLog.

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Product Support

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Changes in QuickLog Release 1.2

▼ Operates on Solaris 8

This release of QuickLog operates on Solaris 8, in both 32-bit and 64-bit mode.

▼ Changes to `vxld_admin` Command

The `-f` option was added to the `vxld_admin` command to allow removal of a QuickLog device without having to do a reboot. Using this new option requires a full file system check (`fsck`) on any file systems using the QuickLog device. Use the `vxld_admin -f` command only if the QuickLog device is hung and the following commands failed to correct the condition:

```
# vxld_rmlog device
```

and

```
# vxld_admin admin remove device
```

Changes in QuickLog Release 1.1

▼ Product Name Change

The product name was changed from VERITAS Accelerator *for NFS* to VERITAS QuickLog, and the package name was changed from `VRTSvxld` to `VRTSqllog`.

VERITAS Documentation, such as the *VERITAS File System System Administrator's Guide* and *VERITAS File Server Edition System Administrator's Guide*, and the online manual pages, use the new product name. Error messages also use the new product name. However, QuickLog commands, the configuration file, library, and kernel components, retain the previous naming convention. For example, the kernel driver is `vxld` and command names still begin with “`vxld_`”.

The last released version of this product was VERITAS Accelerator *for NFS* 1.0.6.

▼ Operates on Solaris 7

This release of QuickLog operates on Solaris 7, in both 32-bit and 64-bit mode.

▼ Enhanced `vxld_stat` Command

The `vxld_stat` command provides more comprehensive system statistics.

▼ Enhanced `vxld_cfgrec` Command

The `vxld_cfgrec` command now rebuilds the QuickLog configuration from the original server on the failover host in a cluster environment.

▼ Changes to `vxld_logck` Command

The `-S` option of `vxld_logck` was removed. The new syntax is:

```
# vxld_logck [logdevice]
```



QuickLog Compatibility With VxFS

Making QuickLog operable on 64-bit systems required changes that make it incompatible with VERITAS File System versions released before VxFS 3.3.2. The following table lists the compatible VxFS and QuickLog versions.

VERITAS File System Version Compatibility with QuickLog	
VxFS Versions 2.3 through 3.3.1	Accelerator <i>for NFS</i> Version 1.0.x.
VxFS Version 3.3.2	QuickLog Version 1.1
VxFS Version 3.3.3	QuickLog Version 1.2

Note You cannot add the QuickLog package to your system unless the appropriate version of VxFS is already installed.

Upgrading QuickLog 1.1 to QuickLog 1.2

1. Save a copy of the QuickLog configuration file `/etc/vxld/config` so that after you install the new QuickLog package you will have a guide to restore your original configuration. You can simply save the file, or you can capture your current configuration by typing:

```
# vxld_print > vxld_config.out
```

2. Detach all VERITAS file systems from their respective QuickLog devices. For each file system using QuickLog, enter:

```
# vxld_umntfs mountpoint
```

or

```
# mount -F vxfs -o remount,log special mountpoint
```

Because the file systems remain mounted while the upgrade is in progress, the availability of file system data is unaffected. When the file systems are detached from their QuickLog devices, all valid log buffers are restored to the file system log.

3. Remove all QuickLog devices (this deletes your current configuration):

```
# vxld_rmall
```

4. Remove the QuickLog 1.1 package:

```
# pkgrm VRTSqllog
```

5. Change to the directory containing the QuickLog 1.2 package and add it to the system:

```
# pkgadd -d ./VRTSqllog
```

6. Restore your original configuration using the file saved in [step 1](#) as a guide. To create a QuickLog device:

```
# vxld_mklog [ -g diskgroup ] vxlogX volume
```

X is a value between 1 and 31. *volume* is the volume or disk partition to use as a QuickLog volume. See the *VERITAS File System System Administrator's Guide* and the `vxld_mklog(1M)` man page for details on creating QuickLog devices.

7. Attach file systems to the QuickLog devices. Use the file you saved in [step 1](#) as a guide. To attach your file systems enter:

```
# vxld_mntfs [vxlogX] mountpoint
```

or

```
# mount -F vxfs -o remount,vxldlog=[vxlogX] \  
special mountpoint
```

X is a value between 1 and 31. See the *VERITAS File System System Administrator's Guide*, and the `vxld_mklog(1M)` and `mount_vxfs(1M)` man pages for details on attaching a VxFS file system to a QuickLog device.

Upgrading VxLD 1.0.x to QuickLog 1.2

1. Save a copy of the Accelerator configuration file `/etc/vxld/config` so that after you install the new QuickLog package you will have a guide to restore your original configuration. You can simply save the file, or you can capture your current configuration by typing:

```
# vxld_print > vxld_config.out
```



2. Detach all VERITAS file systems from their respective Accelerator devices. For each accelerated (logged) file system, enter:

```
# vxld_umntfs mountpoint
```

or

```
# mount -F vxfs -o remount,log special mountpoint
```

Because the file systems remain mounted while the upgrade is in progress, the availability of file system data is unaffected. When the file systems are detached from their Accelerator devices, all valid log buffers are restored to the file system log.

3. Remove all Accelerator devices (this deletes your current configuration):

```
# vxld_rmall
```

4. Remove the 1.0.x Accelerator package:

```
# pkgrm VRTSvxld
```

5. Change to the directory containing the QuickLog 1.2 package and add it to the system:

```
# pkgadd -d ./VRTSqlog
```

6. Restore your original configuration using the file saved in [step 1](#) as a guide. To create a QuickLog device:

```
# vxld_mklog [ -g diskgroup ] vxlogX volume
```

X is a value between 1 and 31. *volume* is the volume or disk partition to use as a QuickLog volume. See the *VERITAS File System System Administrator's Guide* and the `vxld_mklog(1M)` man page for details on creating QuickLog devices.

7. Attach file systems to the QuickLog devices. Use the file you saved in [step 1](#) as a guide. To attach your file systems enter:

```
# vxld_mntfs [vxlogX] mountpoint
```

or

```
# mount -F vxfs -o remount,vxldlog=[vxlogX] \  
special mountpoint
```

X is a value between 1 and 31. See the *VERITAS File System System Administrator's Guide*, and the `vxld_mklog(1M)` and `mount_vxfs(1M)` man pages for details on attaching a VxFS file system to a QuickLog device.

Software Problems Fixed in This Release

VERITAS Incident Number	Description
31508	In any configuration other than one log device with one log volume attached to it, running <code>vxld_cfgrec -a mydg</code> would not recover the devices in the same configuration that they were in on the original server.
33452	The <code>vxld_logck</code> command was incorrectly initializing memory.
33957	Log write failures could occur because the internal free work item list maintained by QuickLog was being calculated incorrectly.
39459	When recovering a log volume, the <code>vxld_logck</code> command could retrieve invalid data because QuickLog was incorrectly calculating the data remaining at the end of the log if the last chunk was less than 64K in size.

Software Problems Fixed in Release 1.1

VERITAS Incident Number	Description
27784	(Accelerator for NFS Version 1.0.4) Heavily used file systems would hang when using a shared log device.



