

Veritas Storage Foundation[™] Cluster File System Release Notes

Linux

5.0



Veritas Storage Foundation Cluster File System Release Notes

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Storage Foundation Cluster File System

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Veritas Storage Foundation Cluster File System is a licensed product. See the *Veritas Storage Foundation Cluster File System Installation Guide* for license installation instructions.

Technical support

For technical assistance, visit <http://support.veritas.com> and select phone or email support. Use the Knowledge Base search feature to access resources such as TechNotes, product alerts, software downloads, hardware compatibility lists, and our customer email notification service.

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Storage Foundation Cluster File System Release Notes

Introduction

Veritas Storage Foundation Cluster File System (SFCFS) and Storage Foundation Cluster File System High Availability (SFCFS HA) compose the clustering functionality of Veritas File System (VxFS) and are separately licensed features of Storage Foundation. Failover capabilities, such as monitoring system and application services and restarting them on a different system when hardware or software fails, are not required for the operation of SFCFS, but can be added to the cluster after installing and configuring SFCFS HA.

Note: Read the following Veritas Technical Support TechNote for the latest information on updates, patches, and software issues for this release:

<http://support.veritas.com/docs/277033>

New features

Veritas Storage Foundation Cluster File System provides the following new features:

Concurrent I/O support

This feature extends current support for concurrent I/O to cluster file systems. Semantics for concurrent read/write access on a file in a cluster file system matches those for a local mount.

Delaylog supported

The `-o delaylog` mount option is supported with cluster mounts.

Disk layout version supported

Disk layout version 7 is now supported on SFCFS.

Nested mount support

This allows mounts of a VxFS file system on any VxFS mount point. There is no requirement to allow mounts of non-VxFS file system on a shared VxFS mount point. A directory on a shared VxFS file system may be used as a mount point for a VxFS file system, enabling nested mounts of shared file systems. The SFCFS and Veritas Cluster Server (VCS) administration interface is enhanced to support nested mounts.

Multiple transaction servers—a new major architectural enhancement to SFCFS

With this feature, SFCFS moves from a primary/secondary architecture, where only one node in the cluster processes metadata operations (file creates, deletes, grow, etc.) to a symmetrical architecture, where all nodes in the cluster can simultaneously process metadata operations. This allows SFCFS to handle significantly higher metadata loads.

System requirements

This section describes the system requirement for this release.

Supported Linux operating systems

Storage Foundation Cluster File System operates on the following Linux operating systems and kernel binaries distributed by Red Hat and SUSE:

- Red Hat Enterprise Linux 4 (RHEL 4) with Update 3 (2.6.9-34 kernel) on AMD Opteron or Intel Xeon EM64T (x86_64).
- SUSE Linux Enterprise Server 9 (SLES 9) with SP3 (2.6.5-7.244, 252 kernels) on AMD Opteron or Intel Xeon EM64T (x86_64).

Note: If your system is running an older version of either Red Hat Enterprise Linux or SUSE Linux Enterprise Server, you must upgrade it before attempting to install the Veritas Storage Foundation Cluster File System software. Consult the Red Hat or SUSE documentation for more information on upgrading your system.

Hardware compatibility

For information on servers, network controllers, and disk subsystems that support SFCFS, see the hardware compatibility list available at <http://support.veritas.com>.

Memory requirements

2 GB of memory is required.

Required patches

Patch requirements and versions are determined at the time of product release.

Note: Read the following Veritas Technical Support TechNote for the latest information on updates, patches, and software issues for this release: <http://support.veritas.com/docs/277033>

See the *Veritas Storage Foundation Cluster File System Installation Guide*. Contact your vendor for the most current patch version and information.

No longer supported and future support issues

This section lists functions that are either:

- not supported in 5.0
- may not be supported in future releases

seconly mount option

The `seconly mount` option might not be supported in the next release of Veritas Storage Foundation Cluster File System.

Version 4 disk layout

VxFS disk layout Version 4 is not supported in 5.0. Maintenance patches for the 4.0 release of SFCFS will continue to support previous disk layouts. Use the `vxupgrade` command to upgrade to disk layout Version 6 or 7.

See the *Veritas Storage Foundation Cluster File System Administrator's Guide*.

Note: Version 7 is the default disk layout version for the 5.0 release.

I/O error mount options

In this and future releases, only `ioerror=disable` and `ioerror=mdisable` mount options are supported for cluster-mounted file systems. Other `ioerror` mount options are not supported.

Fixed issues

The following table contains information about fixed issues in this release.

Incident	Description
592952	FSONCALL(280-544-079): HealthPlan Svs - Poor <code>fcntl()</code> performance over CFS.
511460	FSONCALL (230088939) PRI3 Genentech Inc - <code>df</code> reports wrong information on a umounted block device.
511344	FSONCALL (280482755): Pri3 TRW Systems: <code>qioadmin</code> file settings not persistent after reboot.
598387	FSONCALL(280-567-666): St. Jude Children's Hospital - System panic in <code>find_exported_dentry()</code> .

Known issues

Nested non-shared mount

If you want to unmount all the file systems where the parent file system is disabled for any reason, you will need to force unmount on the parent first then by a regular unmount of the child.

NMI watchdog may trigger a panic

On systems with a large number of CPUs, under certain heavy file system load patterns it is possible for the NMI watchdog to trigger a panic due to spin lock contention. Should this condition be encountered the recommended workaround is to impose write throttling. For example:

```
# vxtunefs -o write_throttle=8192 /mnt-point
```

This issue will be fixed in the next 5.0 maintenance pack.

VxFS limits multiple mounts capability

Even though Linux supports mounting the same device multiple times on different points in the name space, VxFS limits this capability. Veritas does not allow multiple mounts if one of the mount points is a directory on a VxFS cluster-mounted file system. This displays an already mounted message from the `mount` command.

Running fsck before upgrading to 5.0

Before upgrading to SFCFS 5.0, make sure that all the file systems are clean by running the `fsck` command.

See the `fsck(1M)` manual page.

The `fsck` command replays the intent log to complete any outstanding transactions, then marks the file system as clean.

Warning: You must run `fsck` before upgrading an existing cluster file system to 5.0. If you upgrade to 5.0, and then run the `fsck` command, it will fail due to the incompatibility of older `fsck` binaries with the new kernel.

See the *Veritas Storage Foundation Cluster File System Installation Guide*.

vxesd reference to originating directory causes possible file system unmounting problems

The Event Source Daemon (`vxesd`) holds a reference to the directory from where it was started, that prevents the file system associated with the directory from being unmounted. To unmount the file system, perform the following steps:

1. Stop the `vxesd` daemon:
`# vxddladm stop eventsource`
2. Change the current working directory:
`# cd /`
3. Restart the `vxesd` daemon:
`# vxddladm start eventsource`

Issues with node crashes and joins after the FCL is activated

If a node crashes or joins the cluster within 60 seconds of the FCL (File Change Log) being turned on, the FCL does not correctly record data.

[608169]

Software disc cannot be ejected during installation

During installation, if any of the products were configured and started, the software disc cannot be ejected. This may prevent installation from continuing in following circumstances:

- If the language pack disc needs to be loaded so that the associated packages can be installed.

- A product was installed that did not require a system reboot to complete the installation.

This problem is not an issue if a product was installed or upgraded that required a system reboot to complete the installation.

To avoid this problem at install time

- 1 Specify the `-installonly` option to the `installer` script in addition to any other options.
- 2 Eject the software disc.
- 3 Run the `installer` script with the `-configure` option specified.

If a software disc cannot be ejected

- 1 Stop the event source daemon:

```
# /usr/sbin/vxddladm stop eventsource
```
- 2 Kill the `vxcached`, `vxrelocd` and `vxnotify` processes by using the `kill -9` command with their process IDs as reported by the `ps` command.
- 3 Eject the software disc.
- 4 Restart the VxVM daemon processes:

```
# /usr/sbin/vxddladm start eventsource  
# /etc/vx/bin/vxcached  
# /etc/vx/bin/vxrelocd
```

[622442]

Support for SFCFS configurations larger than 16 nodes

SFCFS 5.0 is capable of supporting cluster file systems with up to 32 nodes. Symantec has tested and qualified SFCFS 5.0 cluster file system configurations of up to 16 nodes at product release time. Support can be contacted for their approval and recommendations on cluster file system deployments larger than 16 nodes, based on the application workload. For the latest information on SFCFS support issues, see the following TechNote:

<http://support.veritas.com/docs/277033>

Software limitations

fsck may abort when applied to unclean file systems from Veritas File System 4.0 or 4.1

Due to an incompatibility in the VxFS `fsck` utility between the 5.0 and 4.0 and 4.1 releases, `fsck` may abort during intent log replay if run on older file systems. This only affects file systems that were previously running under VxFS 4.0 or 4.1 that are CVM-shared volumes or multi-volume file systems, and that were not cleanly unmounted prior to use in VxFS 5.0.

If you encounter this situation, perform a full `fsck` to bring the file system to a consistent, clean state that is ready to be mounted.

See the `fsck_vxfs(1M)` manual page.

Quick I/O, ODM, mount -o cio, and the VX_CONCURRENT advisory are mutually exclusive

The `VX_CONCURRENT` advisory cannot be set on a file that is actively open by Quick I/O or ODM. A file that has the `VX_CONCURRENT` advisory set may not be concurrently opened by Quick I/O or ODM. Quick I/O and ODM access are not allowed for any files on a file system that is mounted with the `-o cio` mount option.

Volume management support

The Veritas File System (VxFS) is only supported on Veritas Volume Manager (VxVM) volumes.

sendfile support

The current version of VxFS does not support the `sendfile()` system call. In order to use Apache with VxFS, use the Apache configuration option `EnableSendFile Off`.

Compatibility with previous versions of Veritas File System

A disk layout Version 7 file system created with VxFS 5.0 software will not be accessible if the VxFS 5.0 file system software is removed and the system is reverted to VxFS 4.1.

See the *Veritas Storage Foundation Release Notes*.

Security-enhanced Linux

Security-enhanced (SE) Linux support is provided for evaluation purposes only. Security policy files are not currently available for the Veritas product stack.

To disable SE Linux at boot time on both SLES9 and RHEL4, set the kernel boot parameter `selinux` to 0 (`selinux=0`) and reboot the machine.

Assuming the system has been configured for booting from the machine *machine_name*, edit the file `/boot/machine_name/menu.lst` to include `selinux=0` on the kernel line. Then reboot the machine to ensure the setting takes effect.

Consistent Linux distribution and kernel version for Storage Foundation Cluster File System

Cluster nodes must run the same Linux distribution and kernel version. You cannot mix 32-bit and 64-bit kernels in the same cluster. Cluster nodes must run 64-bit kernels.

Storage Foundation Cluster File System agents cannot support Japanese mount points

None of the SFCFS agents (for example, `cfsmntadm` and `cfsmount`) work on a Japanese mount point. These commands fail on a Japanese operating system because the SFCFS agents require Veritas Cluster Server (VCS) and VCS currently does not support non-ASCII input.

Cluster nodes must run the same Linux distribution and kernel version. A cluster must consist of nodes running either 32 or 64 bit kernels for Red Hat distribution or 64 bit kernels for SUSE distribution.

Mounted VxFS file systems may prevent rebooting

If you have VxFS file systems mounted and I/O is being done on those file systems and you try to reboot the machine, it might not reboot. To work around this issue, unmount all VxFS file systems that are mounted before rebooting the machine. [153253]

Fencing

If during the SFCFS installation procedure you chose to enable fencing but have yet to configure the coordinator disks, Cluster Volume Manager will not join the cluster. If you choose to disable fencing, or if fencing cannot be supported in the current configuration, the following steps will disable fencing and allow shared disk groups to join:

- 1 Create the file `/etc/vxfenmode` on each node (if it does not already exist).
- 2 Add the string `vxfen_mode=disabled` to the file.

Required upgrade for Cluster Volume Manager protocol

The Cluster Volume Manager (CVM) protocol must be upgraded before upgrading the disk group from previous versions.

To upgrade the CVM protocol

- 1 Check the existing cluster protocol version:

```
# vxdctl protocolversion
```
- 2 To upgrade the cluster protocol version to version 70 for the entire cluster, use the following command on the master node:

```
# vxdctl upgrade
```

See the *Veritas Storage Foundation Installation Guide*.

NIC detection during installation

Operating system limitations may affect the detection of valid network interconnect cards (NICs) during SFCFS/SFCFS HA installation. Specifically, more NICs for heartbeat links may be listed than are actually available. Verify which NICs are valid on your system before proceeding with the install.

To verify which NICs are valid, use the following command:

```
# ifconfig -a
```

Caching advisories

Caching advisories are set with the `mount` command on individual file systems, but are not propagated to other nodes of a cluster.

To work around this issue, set the required cache advisories with the `vxtunefs` command instead.

Cached Quick I/O

This Quick I/O for Databases feature that caches data in the file system cache is not supported.

Quotas

When using quotas, the UID and GID for a user must be the same on each node in the cluster.

Local scope for named pipes

Named pipes created on a cluster-mounted file system have only a local scope pertaining to the local node.

Devices other than named pipes cannot be created using the `mknod` command.

Do not define LD_LIBRARY_PATH to contain Storage Foundation Cluster File System mounted directories

If SFCFS-mounted directories are present in the `LD_LIBRARY_PATH` environment variable, the system may hang in circumstances such as a forced unmount.

Stopping cluster manager from the command line

In an HA environment where Veritas Cluster Server (VCS) is used to manage other resources, `cfsccluster stop all` fails to stop all the VCS components.

Turn off Veritas Cluster Server volume-level resource monitoring before deleting a volume

If you are using VCS volume-level resource monitoring and you want to delete a volume, you must turn off monitoring for that volume before deleting it. If monitoring for the volume is not turned off, the VCS monitor disables access to the disk group in which the volume resided by changing the activation mode to off. Failure to turn off monitoring will require intervention to change the disk group activation mode back to its original setting. See the `vxdg(1M)` online manual page for information on disk group activation modes.

Cluster Volume Manager comes up in partial state on configuration

When configuring a cluster using the command `cfsscuster config -s`, occasionally CVM comes online in a PARTIAL state because the command is issued before VCS has probed the `vxfsckd`. To bring CVM online, first stop VCS on all the nodes in cluster using `hastop -all`, then restart VCS on each node.

Swap files not supported

Swap files are not supported on cluster-mounted file systems.

Obtaining information about mounted file system states

For accurate information about the state of mounted file systems on Linux, refer to the contents of `/proc/mounts`. The `mount` command may or may not reference this source of information depending on whether the regular file `/etc/mtab` has been replaced with a symbolic link to `/proc/mounts`. This change is made at the discretion of the system administrator and the benefits are discussed in the `mount` online manual page.

A benefit of using `/proc/mounts` is that changes to SFCFS mount options are accurately displayed for all nodes.

Documentation

After the installation procedure is complete, documents are available online under the `/opt/VRTS/docs` directory. Documents are provided as Adobe Portable Document Format (PDF) files and in a searchable HTML-based format. To view or print PDF documents, you must have the Adobe Acrobat Reader installed.

Installing documentation and online manual pages is optional.

Veritas documentation disc

The Veritas documentation disc provides searchable, HTML documentation for each product in this release. Printable PDF documents are also included on the disc.

All documentation is organized by product groups.

Release Notes and Installation guides

Release notes and installation guides are not installed by any packages. Veritas recommends that you copy them from the software disc to the `/opt/VRTS/docs` directory on your system after product installation so that they are available for future reference.

Release notes for component products of SFCFS are located under `storage_foundation_cluster_file_system/release_notes`.

Installation guides for component products of SFCFS are located under `storage_foundation_cluster_file_system/docs`.

Read the following installation guide and component product release notes before starting the installation:

- *Veritas Storage Foundation Cluster File System Installation Guide* (`sfcfs_install.pdf`)
- *Veritas Storage Foundation Cluster File System Administrator's Guide* (`sfcfs_admin.pdf`)
- *Veritas Storage Foundation Release Notes* (`sf_notes.pdf`)
- *Veritas Cluster Server Release Notes* (`vcs_notes.pdf`)

Veritas Storage Foundation Cluster File System guides

The following guides comprise the Veritas Storage Foundation Cluster File System documentation set:

Guide Title	Filename
<i>Veritas Storage Foundation Cluster File System Release Notes</i> (this document)	<code>sfcfs_notes.pdf</code>
<i>Veritas Storage Foundation Cluster File System Installation Guide</i>	<code>sfcfs_install.pdf</code>
<i>Veritas Storage Foundation Cluster File System Administrator's Guide</i>	<code>sfcfs_admin.pdf</code>

Related documentation

The following manuals, along with the online help, provide important information about the software components for SFCFS/SFCFS HA.

Veritas Storage Foundation guides

Guide Title	Filename
<i>Veritas Storage Foundation and High Availability Getting Started Guide</i>	getting_started.pdf
<i>Veritas Storage Foundation Release Notes</i>	sf_notes.pdf
<i>Veritas Storage Foundation Installation Guide</i>	sf_install.pdf
<i>Veritas Storage Foundation DB2 Administrator's Guide</i>	sf_db2_admin.pdf
<i>Veritas Storage Foundation Intelligent Storage Provisioning Administrator's Guide</i>	sf_isp_admin.pdf
<i>Veritas Storage Foundation Cross-Platform Data Sharing Administrator's Guide</i>	sf_cds_admin.pdf
<i>Veritas Enterprise Administrator User's Guide</i>	veax6x_users.pdf
<i>Veritas Volume Manager Administrator's Guide</i>	vxvm_admin.pdf
<i>Veritas Volume Manager Troubleshooting Guide</i>	vxvm_tshoot.pdf
<i>Veritas Volume Manager Hardware Notes</i>	vxvm_hwnotes.pdf
<i>Veritas FlashSnap Point-In-Time Copy Solutions Administrator's Guide</i>	flashsnap_admin.pdf
<i>Veritas File System Administrator's Guide</i>	vxfs_admin.pdf
<i>Veritas File System Programmer's Reference Guide</i>	vxfs_ref.pdf

Veritas Cluster Server documentation

The following Veritas Cluster Server documentation is available with Veritas Storage Foundation Cluster File System HA:

Guide Title	Filename
<i>Veritas Cluster Server Release Notes</i>	<code>vcs_notes.pdf</code>
<i>Veritas Cluster Server Installation Guide</i>	<code>vcs_install.pdf</code>
<i>Veritas Cluster Server User's Guide</i>	<code>vcs_users.pdf</code>
<i>Veritas Cluster Server Agent Developer's Guide</i>	<code>vcs_agent_dev.pdf</code>
<i>Veritas Cluster Server Bundled Agents Reference Guide</i>	<code>vcs_bundled_agents.pdf</code>
<i>Veritas Cluster Server High Availability for VMware ESX Virtual Machines Application Note</i>	<code>vcs_esx_server.pdf</code>
<i>VCS Enterprise Agent for Oracle Installation and Configuration Guide</i>	<code>vcs_oracle_install.pdf</code>
<i>VCS Enterprise Agent for DB2 Installation and Configuration Guide</i>	<code>vcs_db2_install.pdf</code>
<i>VCS Enterprise Agent for EMC SRDF Installation and Configuration Guide</i>	<code>vcs_srdf_install.pdf</code>
<i>VCS Enterprise Agent for Hitachi TrueCopy Installation and Configuration Guide</i>	<code>vcs_truecopy_install.pdf</code>

Veritas Volume Replicator documentation

The following Veritas Volume Replicator documentation is available with the Veritas Volume Replicator option:

Guide Title	Filename
<i>Veritas Volume Replicator Release Notes</i>	vvr_notes.pdf
<i>Veritas Volume Replicator Installation Guide</i>	vvr_install.pdf
<i>Veritas Volume Replicator Administrator's Guide</i>	vvr_admin.pdf
<i>Veritas Volume Replicator Planning and Tuning Guide</i>	vvr_planning.pdf
<i>Veritas Volume Replicator Web Console Administrator's Guide</i>	vvr_web_admin.pdf
<i>Veritas Volume Replicator Advisor User's Guide</i>	vvr_advisor_users.pdf
<i>Veritas Cluster Server Agents for Veritas Volume Replicator Configuration Guide</i>	vvr_agents_config.pdf

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TAO

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Douglas C. Schmidt

Apache Commons-Collections

Apache Commons-dbc

Apache Common Logging

Apache Jakarta Commons

Apache Lucene

Apache Portable Runtime

Apache Snmp4j - The Object Oriented SNMP API for Java

Apache Spring Framework

Apache Struts

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Digital Encryption Standard (DES) - MIT

MIT and Dennis Ferguson

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Expat XML Parsing Library

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MD5.h

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JavaTip87: Automate the Hourglass Cursor

Kyle Davis

Portions of this code taken from an article available as of 2/02/02 on the JavaWorld Internet site, entitled Javatip87: Automate the HourGlass Cursor" by Kyle Davis.

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Sockets++ library

University of Texas

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