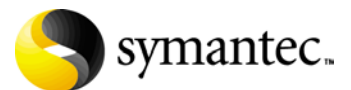


Veritas Storage Foundation[™] Cluster File System Release Notes

HP-UX

5.0



Veritas Storage Foundation Cluster File System Release Notes

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Storage Foundation Cluster File System 5.0

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VERITAS File System Installation Guide is a licensed product. See the *VERITAS File System Installation Guide 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.

Contents

Chapter 1	Storage Foundation Cluster File System Release Notes	
	Introduction	7
	New features	8
	Concurrent I/O support	8
	Delaylog supported	8
	Disk layout version supported	8
	Nested mount support	8
	Multiple transaction servers—a new major architectural enhancement to SFCFS	8
	System requirements	9
	HP-UX operating system requirements	9
	Hardware compatibility	9
	Required patches	9
	No longer supported	10
	Version 4 and version 5 disk layouts	10
	seonly mount option	10
	I/O error mount options	10
	Fixed issues	11
	Veritas File System fixed issues	11
	Known issues	11
	Running fsck before upgrading to 5.0	11
	Ioctls are not supported on the File Change Log file	11
	Issues with node crashes and joins after the FCL is activated	12
	Software disc cannot be ejected during installation	12
	Support for SFCFS configurations larger than 16 nodes	13
	Failure to uninstall GAB during upgrade from 4.1 to 5.0	13
	Failure to uninstall LLT during upgrade from 4.1 to 5.0	14
	Software limitations	15
	Compatibility with previous versions of VxFS	15
	Node and host name expansion	15
	Consistent HP-UX distribution and kernel version for SFCFS	15
	SFCFS agents cannot support Japanese mount points	15
	Mounted VxFS file systems may prevent rebooting	16
	Fencing	16
	Required upgrade for Cluster Volume Manager protocol	16

NIC detection during installation	16
Caching advisories	17
Cached Quick I/O	17
Quotas	17
Local scope for named pipes	17
No SFCFS mounted directories LD_LIBRARY_PATH	17
Turn off Veritas Cluster Server volume-level resource monitoring before deleting a volume	17
Swap files not supported	18
Nested mounts are now allowed on cluster-mounted file systems	18
Support for Concurrent I/O	18
Quick I/O, ODM, CIO and VX_CONCURRENT advisory are mutually exclusive	18
Documentation	19
Veritas documentation disc	19
Release Notes and Installation guides	19
Veritas Storage Foundation Cluster File System guides	20
Related documentation	21

Appendix A Third-party Legal Notices

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/281875>

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. This is the default state for SFCFS.

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) administrator 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

The system requirements and hardware compatibility issues for this release are listed in this section.

HP-UX operating system requirements

This release of SFCFS can only be installed on a system running the HP-UX 11i version 3.0 release or later on the PA-RISC or Itanium platforms.

Verifying your operating system version

You can verify your operating system version prior to attempting to install this release of SFCFS.

To verify your operating system version

- ◆ Use the `swlist` command to verify your operating system version:

```
# swlist | grep HPUX11i
HPUX11i-OE B.11.31 HP-UX Foundation Operating Environment
```

Verifying that JFS is installed

JFS must be installed on your system prior to installing any Veritas software.

To verify that JFS is installed

- ◆ Use the `swlist` command to verify that JFS is installed:

```
# swlist -l product JFS
JFS B.11.31 The Base VxFS File 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>.

Required patches

Patch requirements and versions are determined at the time of product release. Contact your vendor for the most current patch version and information. For a list of current patches for component products, see the *Storage Foundation Cluster File System Installation Guide*.

No longer supported

This section lists functions that are either:

- Not supported in 5.0
- May not be supported in future releases

Version 4 and version 5 disk layouts

VxFS disk layout Versions 4 and 5 might not be supported in the next major release. Version 7 is the default disk layout version for the 5.0 release.

Note: VxFS 5.0 does not support shared (cluster) mounts of file systems with disk layout Versions 4 and 5.

seconly mount option

The `seconly` mount option might not be supported in the next major release.

I/O error mount options

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

Fixed issues

The following incidents were corrected for this release.

Veritas File System fixed issues

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

Incident	Description
472089	<code>vxfs_ninode</code> and <code>vx_bc_bufhwm</code> tunables are now dynamic.
477546	File system reorganization performed by <code>fsadm</code> can be suppressed.
478142	<code>fsck</code> binaries are included for older log versions.
511750	Swap space and tunable changes were required for using <code>fsck</code> and <code>mkfs</code> on big file systems.

Known issues

The following incidents were reported for this release.

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* for additional information on upgrade issues.

ioctls are not supported on the File Change Log file

Ioctls are not supported on the File Change Log file. Commands such as `fsapadm`, `setext`, `fiostat`, and `fsmap` on the FCL file are not supported, since these commands use an internal ioctl to implement their functionality.

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 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/281875>

Failure to uninstall GAB during upgrade from 4.1 to 5.0

The following errors will be reported in the `/var/adm/sw/swagent.log` file during the upgrade of SFCFS from 4.1 to 5.0:

```
* Beginning Analysis Phase.
* Target:          slpam13:/
* Target logfile:  slpam13:/var/adm/sw/swagent.log
* Reading source for file information.
ERROR: Cannot unconfigure gab.
gab may be in use.
Stop/kill all clients of gab
corresponding to following ports.

GAB /sbin/gabconfig ERROR V-15-2-25010 /sbin/gabconfig: open
failed : No such device

ERROR:  The "checkremove" script for "VRTSgab" failed (exit
code "1").
The script location was
"/var/adm/sw/products/VRTSgab/pfiles/checkremove".
* This script had errors and the execution of this product
cannot proceed until the problem is fixed.  Check the above
output from the script for further details.
NOTE:  All filesets in the product
"VRTSgab,l=/opt/VRTSgab,r=4.1" will be excluded because
there was an error in this product.

* Summary of Analysis Phase:
ERROR: Exclude VRTSgab.VRTSGAB-KRN,l=/opt/VRTSgab,r=4.1
ERROR: Exclude VRTSgab.VRTSGAB-ENG-MAN,l=/opt/VRTSgab,r=4.1
ERROR: Exclude VRTSgab.GABRUNTIME,l=/opt/VRTSgab,r=4.1
ERROR: 3 of 3 filesets had Errors.
ERROR: The Analysis Phase had errors.  See the above output for
details.
```

The failure to uninstall GAB does not affect the upgrade to SFCFS 5.0.

Failure to uninstall LLT during upgrade from 4.1 to 5.0

The following errors may be reported in the `/var/adm/sw/swagent.log` file during the upgrade of SFCFS from 4.1 to 5.0:

```
* Beginning the Unconfigure Execution Phase.
* Filesets:      3
* Files:        29
* Kbytes:       1694

* Beginning the Remove Execution Phase.
LLT lltconfig ERROR V-14-2-15000 open /dev/llt failed: No such
device
WARNING: The installed kernel modules include multiple versions
of the module 'llt'. Version 1.0.[42A943B2] will be ignored.
WARNING: The installed kernel modules include multiple versions
of the module 'gab'. Version 1.0.[42A94400] will be ignored.
* The requested changes have been applied to the currently
running configuration.
NOTE: No change to the module 'llt' was needed.
NOTE: No change to the module 'llt' was needed.
Module State Cause Notes
llt      unused      auto-loadable, unloadable
* Removing fileset "VRTSllt.VRTSLLT-RUN,l=/opt/VRTSllt,r=4.1" (1
of 3).
* Removing fileset "VRTSllt.VRTSLLT-KRN,l=/opt/VRTSllt,r=4.1" (2
of 3).
* Removing fileset
"VRTSllt.VRTSLLT-ENG-MAN,l=/opt/VRTSllt,r=4.1" (3 of 3).
WARNING: The installed kernel modules include multiple versions
of the module 'gab'. Version 1.0.[42A94400] will be ignored.
* The requested changes have been applied to the currently
running configuration.
ERROR: There is no module named 'llt'.
ERROR: 'kcmodule llt=unused' failed
ERROR: The "postremove" script for "VRTSllt" failed (exit code
"1"). The script location was
"/var/adm/sw/products/VRTSllt/pfiles/postremove".
* This script had errors but the execution of this product will
still proceed. Check the above output from the script for
further details.
```

The failure to uninstall LLT does not affect the upgrade to SFCFS 5.0.

Software limitations

This section describes software issues in this release of SFCFS.

Compatibility with previous versions of VxFS

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.

In addition, if a disk layout Version 7 file system exists on a boot disk and VxFS 4.1 is removed, the host will not reboot successfully and will remain at the `bcheckrc` prompt. To reboot the host successfully, first edit the `fstab` file and comment out disk layout Version 7 file system.

For additional information on compatibility issues with previous versions of VxFS, see the *Veritas Storage Foundation Release Notes*.

Node and host name expansion

With HP-UX 11i version 3, the default operating system configuration supports 8 bytes for node names and 64 bytes for host names. A dynamic kernel tunable parameter, `expanded_node_host_names`, must be set using the `ktune` command to allow the use of larger names on the system. Veritas 5.0 products for HP-UX 11i version 3 support 31 bytes for host names and 64 bytes for node names.

Consistent HP-UX distribution and kernel version for SFCFS

Cluster nodes must run the same HP-UX distribution and kernel version. You cannot mix 32-bit and 64-bit kernels in the same cluster. Cluster nodes must run 64-bit kernels; 32-bit kernels are not supported by VxFS.

SFCFS 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 VCS and VCS currently does not support non-ASCII input.

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.

Note: Steps 1 and 2 are performed automatically when you use the CPI installer script to configure the cluster in the disabled fencing mode.

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
```

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.

No SFCFS mounted directories LD_LIBRARY_PATH

If SFCFS-mounted directories are present in the `LD_LIBRARY_PATH` environment variable, the system may hang in circumstances such as a forced unmount. Do not define `LD_LIBRARY_PATH` to contain Storage Foundation Cluster File System mounted directories.

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.

Swap files not supported

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

Nested mounts are now allowed on cluster-mounted file systems

You can now mount a local file system or another cluster file system on a cluster-mounted file system in 5.0. Symbolic links can also be used to point to a different mount point from a specific directory.

Support for Concurrent I/O

The Concurrent I/O (CIO) feature enables users to do concurrent reads and writes on a file from multiple nodes. This improves performance for many environments, particularly relational databases that use regular files as database objects.

Quick I/O, ODM, CIO and VX_CONCURRENT advisory are mutually exclusive

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

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* (`sfdfs_install.pdf`)
- *Veritas Storage Foundation Cluster File System Administrator's Guide* (`sfdfs_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 (this document)</i>	<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 Storage Foundation Cluster File System.

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 Oracle Administrator's Guide</i>	sf_ora_admin.pdf
<i>Veritas Array Integration Layer Configuration Guide</i>	vail_config.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>	vea6x_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

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>	vcs_notes.pdf
<i>Veritas Cluster Server Installation Guide</i>	vcs_install.pdf
<i>Veritas Cluster Server User's Guide</i>	vcs_users.pdf
<i>Veritas Cluster Server Agent Developer's Guide</i>	vcs_agent_dev.pdf
<i>Veritas Cluster Server Bundled Agents Reference Guide</i>	vcs_bundled_agents.pdf
<i>VCS Enterprise Agent for Oracle Installation and Configuration Guide</i>	vcs_oracle_install.pdf

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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Apache Portable Runtime

Apache Snmp4j - The Object Oriented SNMP API for Java

Apache Spring Framework

Apache Struts

Apache Tomcat

Xerces C++

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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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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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Perl

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Archive-Tar-1.24

Compress-Zlib-1.41

Crypt-CBC-2.17

File-Spec-0.90

IO-String-1.06

IO-Tty-1.02

libnet-1.19

List-Compare-0.31

Log dispatch perl module

Logfile rotate perl module

Module-Build-0.2611

MIME-Base64-3.07

HTML-Tagset-3.10

HTML-Parser-3.50

Net-DNS-0.49

Net-DNS-SEC-0.12

Net-Netmask-1.9011

Net-Telnet-3.03

Params validate perl module

Proc-Background-1.08

Test-Plan-0.02

Test-Simple-0.60

Time-Date-1.16

Time zone info

URI-1.35

XML-Parser-2.34

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Sockets++ library

University of Texas

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