

Veritas Storage Foundation[™] for Oracle RAC Release Notes

AIX

5.0



Veritas Storage Foundation for Oracle RAC Release Notes

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Storage Foundation 5.0 for Oracle RAC

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Veritas Storage Foundation for Oracle RAC is a licensed product. See the *Veritas Storage Foundation for Oracle RAC Installation and Configuration Guide* for license installation instructions.

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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.

Introduction

This document provides important information regarding Veritas™ Storage Foundation for Oracle RAC (SF Oracle RAC) for AIX. Review this entire document before installing this product.

See the following Technical Support TechNote for the latest information on updates, patches, and software issues regarding this release:

<http://support.veritas.com/docs/282024>

Veritas Storage Foundation for Oracle RAC is an integrated set of software products. It enables administrators of Oracle Real Application Clusters (RAC) to operate a database in an environment of cluster systems running Veritas Cluster Server (VCS) and the cluster features of Veritas Volume Manager and Veritas File System, also known as CVM and CFS, respectively.

Acronyms used for Storage Foundation for Oracle RAC components include the following:

CVM	Veritas Volume Manager cluster functionality
CFS	Veritas File System cluster functionality
VCS	Veritas Cluster Server
VEA	Veritas Enterprise Administrator graphical user interface
VxFS	Veritas File System
VxVM	Veritas Volume Manager

SF Oracle RAC components are described in the *Veritas Storage Foundation for Oracle RAC Installation and Configuration Guide*. Refer to component-product documentation and release notes for additional information to assist you during installation and configuration of SF Oracle RAC.

New features

We offer the following new features in this release of Storage Foundation for Oracle RAC. See the *Installation and Configuration Guide* for details.

- Support for up to 9 nodes
- Fencing with DMP disks
- Support for Oracle 10g Release 2

To verify the latest information on support for Oracle database versions, see the Veritas Technical Support TechNote:

<http://support.veritas.com/docs/282024>

System requirements

Make sure that you have the correct equipment to install SFRAC.

Item	Description
SFRAC systems	Two to eight systems with two or more CPUs at 2GHz or higher.
RAM	Each SFRAC system requires 2 GB or more of physical memory.
Network links	Two or more private links and one public link. Links must be 100BaseT or Gigabit Ethernet directly linking each node to the other node to form a private network that handles direct inter-system communication. Symantec recommends switches for the private network links. These links must be of the same type; you cannot mix 100BaseT and Gigabit.
DVD drive	One drive that is accessible to all nodes in the cluster.
Fibre channel or SCSI host bus adapters	SFRAC requires at least one built-in SCSI adapter per system to access the operating system disks, and at least one additional SCSI or Fibre Channel Host Bus Adapter per system for shared data disks.
Disks	Typical SFRAC configurations require that shared disks support applications that migrate between systems in the cluster. The SFRAC I/O fencing feature requires that all disks used as data disks or as coordinator disks must support SCSI-3 Persistent Reservations (PR).

Item	Description
Disk space	SFRAC space requirement: <ul style="list-style-type: none"> ■ total: 2.6 G ■ /opt: 1.4 G ■ /usr: 200 KB ■ /tmp: 512 MB ■ /var: 32 MB ■ /var/tmp: 700 MB
Swap space	Two times the main memory.

Supported hardware

Review the current compatibility list to confirm compatibility of your hardware:
<http://support.veritas.com/docs/283161>

Supported software

AIX operating system and patches

Within a cluster, all nodes must use the same operating system version and patch level. Run SF Oracle RAC on these operating systems at the required patch levels:

- AIX 5.2 ML6 (legacy) or later
- AIX 5.3 TL4 with SP 4
 SP 4 was not available at the time of this release. Veritas 5.0 products also operate on AIX 5.3 with Service Pack 3, but you must install an AIX interim fix. See the following TechNote for information on downloads, service pack availability, and other important issues related to this release:
<http://support.veritas.com/docs/282024>

Veritas software

Only versions of VCS, VxVM, and VxFS provided on the software disc are supported. Other versions must be removed before the software from the Veritas Storage Foundation for Oracle RAC software disc is installed.

Oracle software

SF Oracle RAC supports the following Oracle software:

- Oracle9i Release 2
- Oracle 10g Release 1
- Oracle 10g Release 2

To verify the latest information on support for Oracle database versions, see the Technical Support TechNote:

<http://support.veritas.com/docs/282024>

Required patches

Oracle software patches

- Oracle 10g Release 1: requires Oracle patches 4435949, 4637591, 5082958
- Oracle 10g Release 2: requires Oracle patch 4637591

No longer supported

Support is no longer provided for:

- Oracle 9i Release 1

Software limitations

The following limitations apply to this release.

Non-global zones

Storage Foundation for Oracle RAC is not supported on non-global zones.

Volume Manager in a shared disk environment (CVM)

Volume Manager cluster functionality does not support software RAID 5.

Cluster File System (CFS)

The following are limitations of Cluster File System:

- CFS supports only disk layout version 6 and 7
- No support for HSM/DMAPI.
- VxFS does not distribute its own versions of file utilities such as `cpio` or `mv`.

Volume Manager in a shared disk environment (CVM)

Volume Manager cluster functionality does not support software RAID 5.

Space-optimized volume snapshots

To avoid performance impact on an SF Oracle RAC cluster, Symantec does not recommend using the space-optimized instant volume snapshot type when using VxVM volume snapshot functionality.

SRVM volume location

The Oracle RAC wizard does not support the SRVM volume and volumes for Oracle datafiles existing in the same shared disk group. However, you can allow for this condition when you manually configure Oracle service groups.

Storage Checkpoints and Database FlashSnap

The following are limitations of Storage Checkpoints and Database FlashSnap:

- You cannot create a clone database using a mounted Storage Checkpoint.
- If you create an Oracle instance using the `spfile` option, you must run the `dbed_update` command before you can successfully perform any Storage Checkpoint or Database FlashSnap functions.
- Storage Checkpoints require file system layout version 6 or 7. Use the `vxupgrade(1M)` command to check the current layout version and to change the layout version if necessary. When upgrading a CFS file system, issue the command from the primary node.
Note: After you upgrade a system to layout version 6 or 7, the file system is no longer compatible with older VxFS file systems.
- When cloning a database using Database FlashSnap, the Oracle database must have at least one mandatory archive destination. For more information about Oracle parameters for archiving redo logs, see your Oracle documentation.

- For an Oracle RAC database, the `dbed_vmsnap`, `dbed_vmclonedb`, and `dbed_vmchecksnap` commands must be run on the CVM master node. Also, only online snapshots are supported, which means the database instance should be up and running on the master node where validation is performed.
- After running `dbed_vmsnap -o reverse_resync_commit`, your primary database is started using a pfile. If your original primary database used an spfile, you need to shut down the database and restart it using the spfile. Then, run `dbed_update` to update the repository.
- The Storage Checkpoint and Database FlashSnap features of SF Oracle RAC do not support the GUI of the Veritas Storage Foundation for Oracle product.
- The Database FlashSnap feature does not support RAID-5 volumes.

Oracle Disk Manager (ODM)

Oracle Disk Manager uses the Quick I/O driver for asynchronous I/O. Do not turn off the Quick I/O mount option, which is the default.

RDAC driver and FASTT array for coordinator disks

For multipathing to connected storage, AIX uses the RDAC driver for FASTT arrays. Since it is an active/passive array, only the current active path is exposed to clients. The I/O fencing driver, `vxfen`, can use only a single active path and has no fore-knowledge of the passive paths to the coordinator disks on an array.

Therefore, if the single active path fails, all nodes in the cluster lose access to the coordinator disks. The loss of the path to the coordinator disks can potentially go unnoticed until a reboot, split brain, or any other reason that leads to a cluster membership change occurs. In any of these conditions, the cluster cannot form, and all nodes panic to prevent data corruption. No data loss occurs.

LLT low priority heartbeat links not recommended

Symantec does not recommend using LLT low priority links for SF Oracle RAC. Low priority links reduce network overhead by reducing the frequency of heartbeats, but they are not suited for the typical volume of SF Oracle RAC data.

Installation notes

The following information includes guidelines, tips, and other considerations for installing the product.

Storage Foundation for Oracle RAC packages

Storage Foundation for Oracle RAC is a licensed product. The *Veritas Storage Foundation for Oracle RAC Installation and Configuration Guide* describes how to obtain a license that applies for Veritas Storage Foundation for Oracle RAC, Veritas Volume Manager, Veritas File System, and Veritas Cluster Server.

Infrastructure packages installed

The installer checks for the presence of the infrastructure packages, `VRTSvlic` (Veritas Licensing) and `VRTScpi` (Veritas Product Installer). If they are not present, or if they are present but not the correct version, they will be installed.

Software installed for Storage Foundation for Oracle RAC

The software components installed by the Veritas Storage Foundation 5.0 for Oracle RAC installation utility, `installsfrac`, include:

- Veritas Storage Foundation for Oracle RAC
- Veritas Cluster Server (VCS)
- Veritas Volume Manager (VxVM)
- Veritas Group Lock Manager
- Veritas File System (VxFS)
- Veritas extension for Oracle Disk Manager (ODM)
- Veritas Cluster Server agent for Oracle

Operation notes

The following information includes guidelines, tips, and other considerations for operating the product. See the *Storage Foundation for Oracle RAC Installation and Configuration Guide* for complete procedures.

Enabling Fencing

When the product installer completes installation of SF Oracle RAC, I/O fencing is disabled on all cluster nodes. Symantec does not support using SF Oracle RAC with I/O fencing disabled. See the *Veritas Storage Foundation for Oracle RAC Installation and Configuration Guide*, Chapter 3, for details on configuring I/O fencing in a cluster environment.

Setting LIBPATH in the EnvFile attribute of Veritas agent for Oracle

If you do not specify the use of the EnvFile attribute in the Oracle resource definition in the `main.cf` file, Oracle starts with the root user's LIBPATH. This setting may not be appropriate for Oracle.

Edit the file (or files for multiple instances) that correspond to the EnvFile attribute as specified in the Oracle resource definition.

For example, to set the variable, edit:

```
LIBPATH=$ORACLE_HOME/lib:${LIB_PATH}
export LIB_PATH
```

Set `$ORACLE_HOME` to the home directory of Oracle in your environment.

Determining if disk arrays have array support library (ASL)

Each disk array you use for shared storage with Storage Foundation for Oracle RAC requires an Array Support Library. Use the following command to list all ASLs currently available on your system:

```
# vxddladm listsupport
```

Use the following command to list arrays on your system and the ASLs they currently use:

```
# vxdmpadm listenclosure all
```

Known issues

The following incidents were reported for this release with methods for resolving them.

Configuring an Oracle 10g database under VCS control

Disabling CRS for Veritas agent for Oracle

The Veritas agent for Oracle can control an Oracle 10g database, providing in-depth monitoring capability. Before using the agent, disable CRS control of the database. Refer to the following TechNote on the Technical Support website for details: <http://support.veritas.com/docs/275388>.

Oracle 10.1.0.3 databases created by DBCA may fail on reboot

When a cluster runs an Oracle 10g (10.1.0.3) database created by the Oracle Database Creation Assistant (DBCA), shutting down or rebooting one node may kill the database instances on other nodes. This problem occurs when CRS control of the database is disabled. The 10.1.0.4 release is addressing this issue.

Workaround: Refer to the following TechNote on the Technical Support website for the latest information on this problem: <http://support.veritas.com/docs/275388>.

Handling of RAW files with ODM enabled for Oracle 10g

Oracle can use RAW files for data files, control files and redo logs. Previously, the SQL REUSE clause was ignored if the associated file was a RAW file. From Oracle 10g onwards, the REUSE clause of SQL is mandatory when Oracle Disk Manager (ODM) is enabled.

Workaround: To create database files on raw volumes, you must set the REUSE option in the SQL commands. For examples of error messages and SQL workarounds, see the following Technical Support TechNote:

<http://support.veritas.com/docs/283362>

Changing the Veritas agent for Oracle error handling

The Veritas agent for Oracle provides enhanced handling of Oracle errors encountered during detailed monitoring. The agent uses the reference file, `oraerror.dat`, which provides a list of Oracle errors and actions to address the errors. Refer to the *Veritas High Availability Agent for Oracle Installation and Configuration Guide* for a description of the actions.

Currently, the file specifies the NOFAILOVER action for the following Oracle errors:

```
ORA-00061, ORA-02726, ORA-6108, ORA-06114
```

The NOFAILOVER action means that the agent sets the state of the resource to OFFLINE and freezes the service group.

You may stop the agent, edit the `oraerror.dat` file, and change the NOFAILOVER action to another action according to your environment. The changes go into effect when you restart the agent.

Stopping cluster nodes configured with I/O fencing

The I/O fencing feature protects against data corruption resulting from a failed cluster interconnect or “split brain.” See “VCS Communications, Membership, and I/O Fencing” in the *VCS User’s Guide* for details on the problems a failed interconnect can create and the protection I/O fencing provides.

I/O fencing uses SCSI-3 Persistent Reserve keys to implement data protection. The software places keys on I/O fencing coordinator and data disks. The administrator must be aware of several operational changes needed when working with clusters protected by I/O fencing. Specific shutdown procedures ensure keys are removed from coordinator disks and data disks to prevent possible difficulties with subsequent cluster startup.

Using the `reboot` command rather than the `shutdown` command bypasses shutdown scripts and can leave keys on the coordinator and data disks.

Depending on the order of reboot and subsequent startup events, the cluster might warn of a possible split brain condition and fail to start up.

Workaround: Use the `shutdown -r` command instead of the `reboot` command to perform a graceful reboot for systems.

The `vxfsentsthdw` command requires "+" in `/.rhosts` file

The `vxfsentsthdw` command requires `rsh` permissions to all cluster nodes, including the one from which you run the command. The `/.rhosts` file must contain a "+" character in the first line.

SCSI reservation errors during bootup

If you reboot a node of an SF Oracle RAC cluster, SCSI reservation errors may be observed during bootup. For example:

```
Nov 23 13:18:28 galaxy kernel: scsi3 (0,0,6) :  
RESERVATION CONFLICT
```

This message is printed for each disk that is a member of any shared disk group which is protected by SCSI-3 I/O fencing. The message may be safely ignored.

I/O fencing module may not be able to write the reservation keys

If you leave the product installer without stopping all the SF Oracle RAC components, you may encounter problems with the I/O fencing module, `vxfen`.

If `vxfen` has problems coming up after the reboot, SCSI3 PR registration keys should be fixed using `vxfenclearpre` command. See the *Storage Foundation for Oracle RAC Installation and Configuration Guide*.

Infinite start check loop in `init.cssd`

The `Clsinfo` script may be called frequently from `/etc/init.cssd`. This issue was only observed in CRS 10.1.0.4.

Workaround: Refer to bug 315235.1 in Oracle metalink. Patch 4554792 solves this problem. Before applying the patch, back up the `/etc/init.d/init.cssd` script. After the patch is applied, the following lines should be inserted in `/etc/init.d/init.cssd` immediately after definition of `CRS_Process_Volume_Group()` function:

```
# Veritas Cluster Server (Linux)
if [ -d "/opt/VRTSvcs" ]
then
    VC_UP="/opt/VRTSvcs/ops/bin/checkvcs"
    CLINFO="/opt/VRTSvcs/ops/bin/clsinfo"
    SKGXNLIB="/opt/ORCLcluster/lib/libskgxn2.so"
fi
```

Documentation

Product guides are available on the documentation disc in PDF and HTML formats. We recommend copying pertinent information, such as installation guides and release notes, from the disc to your system directory `/opt/VRTS/docs` for reference.

Storage Foundation for Oracle RAC Documentation Set

Document Title	File Name
Veritas Storage Foundation for Oracle RAC	
<i>Veritas Storage Foundation for Oracle RAC Installation and Configuration Guide</i>	<code>sfrac_install.pdf</code>
<i>Veritas Storage Foundation for Oracle RAC Release Notes</i>	<code>sfrac_notes.pdf</code>
Veritas Cluster Server	
<i>Veritas Cluster Server Installation Guide</i>	<code>vcs_install.pdf</code>
<i>Veritas Cluster Server Release Notes</i>	<code>vcs_notes.pdf</code>
<i>Veritas Cluster Server User's Guide</i>	<code>vcs_users.pdf</code>
<i>Veritas Cluster Server Bundled Agents Reference Guide</i>	<code>vcs_bundled_agents.pdf</code>
<i>Veritas Cluster Server Agent Developer's Guide</i>	<code>vcs_agent_dev.pdf</code>
<i>Veritas Cluster Server Enterprise Agent for Oracle Installation and Configuration Guide</i>	<code>vcs_oracle_install.pdf</code>
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<i>Veritas Storage Foundation Release Notes</i>	<code>sf_notes.pdf</code>
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<i>Veritas Volume Manager Cross-platform Data Sharing Administrator's Guide</i>	<code>sf_cds_admin.pdf</code>
<i>Veritas FlashSnap Point-in-Time Copy Solutions Administrator's Guide</i>	<code>flashsnap_admin.pdf</code>
Veritas Volume Manager	
<i>Veritas Volume Manager Administrator's Guide</i>	<code>vxvm_admin.pdf</code>
<i>Veritas Volume Manager Troubleshooting Guide</i>	<code>vxvm_tshoot.pdf</code>
Veritas File System	
<i>Veritas File System Administrator's Guide</i>	<code>vxfs_admin.pdf</code>

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ACE (The Adaptive Communication Environment)

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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