Sun™ Cluster 3.0 and Sun StorEdge™ Software Release Note Supplement

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Sun StorEdge Availability Suite 3.1 Software Release Note Supplement

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Note – The Sun StorEdge™ Availability Suite 3.1 point-in-time copy and remote mirror software is not supported in a Sun Cluster 2.2 operating environment.

This release note supplement contains important last-minute information about the Availability Suite 3.1 point-in-time copy and remote mirror software operating in a Sun™ Cluster 3.0 Update 1 or Update 2 environment.

Note – Sun Cluster 3.0 Update 1 is also known as the Sun Cluster 3.0 07/01 release; Sun Cluster 3.0 Update 2 is also known as the Sun Cluster 3.0 12/01 release.

This supplement includes the following topics:

Supported Software and Hardware

Note – You cannot use the Sun StorEdge Fast Write Cache (FWC) product (all versions) in any Sun Cluster environment because cached data is inaccessible from other machines in a cluster. To compensate, you can use a Sun caching array.

Note – The Sun StorEdge Network Data Replicator and Instant Image software (versions 3.0 and 3.0.1) and the Availability Suite 3.0 software contained the `SUNWnvm` package for Sun StorEdge Fast Write Cache 2.0 users. The 3.1 version of the suite does not contain or support any `SUNWnvm` version.

TABLE 1 Supported Software and Hardware

Operating Environment Software	Solaris™ 8, all releases that are supported by the Sun Cluster 3.0 Update 1 and Update 2 software
Sun Cluster Software	Sun Cluster 3.0 Update 1 software (also known as the 07/01 release) Sun Cluster 3.0 Update 2 software (also known as the 12/01 software)
Volume Manager Software	Solaris DiskSuite 4.2.1, Solaris Volume Manager VERITAS Volume Manager (VxVM) 3.1 The Sun StorEdge software does not support metatrans devices created by using the Sun Solstice DiskSuite and Sun Volume Manager.
Sun StorEdge Software	Sun StorEdge Availability Suite 3.1 remote mirror and point-in-time copy software.
Supported Cluster Configuration	The Sun Cluster 3.0 (07/01 and 12/01) and Sun StorEdge software are supported in a two-node cluster environment only.
Hardware	A CD-ROM drive connected to the host server where the Sun software is to be installed. Disk space requirements: • The remote mirror software requires approximately 1.4 Mbytes • The point-in-time copy software requires approximately 1 Mbyte • The Sun StorEdge configuration location requires 5.5 Mbytes • Supporting Sun StorEdge core packages require approximately 3 Mbytes

Product Notes

This section describes the following topics:

Using the Point-In-Time Copy Software Import, Export, and Join Features in a Sun Cluster Environment

The point-in-time copy software import, export, and join features are not supported in a Sun Cluster environment at this time.

Shutting Down Nodes After You Install the Sun StorEdge Software

Because the Sun StorEdge installation process requires you to shut down and restart each node in the cluster, *make sure that you install the Sun StorEdge software and related patches during your normal maintenance window.*

As a result of this shutdown and restart, you might experience a panic condition on the node you are restarting. The node panic is expected behavior in the cluster and is part of the cluster software's *failfast mechanism*. The *Sun Cluster 3.0 U1 Concepts* manual describes this mechanism and the Cluster Membership Monitor (CMM).

Creating and Configuring Sun StorEdge Volume Sets

Caution – In a clustered environment, only one system administrator or root user at a time is allowed to create and configure Sun StorEdge volume sets. This restriction helps avoid creating an inconsistent Sun StorEdge Availability Suite volume set configuration.

In a clustered environment, two or more administrators should not be writing to the Sun StorEdge Availability Suite software configuration at the same time. The operations that access the configuration include but are not limited to:

- Creating and deleting volume sets
- Adding and removing volume sets from I/O groups
- Assigning new bitmap volumes to a volume set
- Updating the disk device group or resource name
- Any operation that changes the Sun StorEdge Availability Suite software and related volume set configuration

Switching Over Global Devices Only

The `scswitch`(1M) command enables you to manually switch all resource groups and device groups from the primary mastering node to the next preferred node. The *Sun Cluster 3.0 U1 System Administration Guide* describes how to perform these tasks.

Local devices do not fail over and switch back; do not configure them as part of your cluster. A file system mounted on a volume and designated as a local device must not be configured as a device to fail over and switch back in the Sun Cluster environment. Only global devices mounted with the `global` option in the `/etc/vstab` file can switch to another cluster node.

A Directory Named ._ is Created After Mounting a Secondary Volume

After you synchronize the primary and secondary remote mirror software volumes, you might notice a directory named ._ if you perform a directory listing. This directory is created by the cluster file system. For example:

```
secondary_hostname# ls -a
.
..
._
.profile
bin
classes
[and so on]
```

You can ignore this directory or delete it. When you unmount the cluster file system, the directory disappears.

Documentation Errata

None as of this release.

Workarounds to Known Bugs

This section provides workarounds to the following known bugs:
None as of this release.