



# **Sun Cluster Geographic Edition 3.1 2006Q4 Release Notes**



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# Sun Cluster Geographic Edition 3.1 2006Q4 Release Notes

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This document provides the following information for Sun™ Cluster Geographic Edition 3.1 2006Q4 software.

- “Supported Products” on page 5
- “Known Issues and Bugs” on page 7
- “Required Patches” on page 11
- “Sun Cluster Geographic Edition 3.1 2006Q4 Documentation” on page 12
- “Documentation Issues” on page 13

## Supported Products

This section describes the supported software for Sun Cluster Geographic Edition 3.1 2006Q4 software.

TABLE 1 Supported Products

Software	Version
Solaris Operating System	8, 9, and 10 (SPARC® edition), 10 (x86 edition)
Sun Cluster	3.1 8/05
Sun Cluster agent for Oracle RAC	Oracle 9i RAC on Solaris OS (SPARC) with VERITAS Volume Manager and Hitachi TrueCopy

TABLE 1 Supported Products (Continued)

Software	Version
Volume management software	<ul style="list-style-type: none"> <li>■ For use with Sun StorageTek™ Availability Suite 4 software: Solaris Volume Manager software or VERITAS Volume Manager software on Solaris OS 10</li> <li>■ For use with Sun StorEdge™ Availability Suite 3.2.1 software: Solaris Volume Manager software on Solaris OS 9, Solstice Disk Suite on Solaris OS 8, or VERITAS Volume Manager software</li> <li>■ For use with Hitachi TrueCopy software: VERITAS Volume Manager software</li> <li>■ For use with EMC Symmetrix Remote Data Facility software: VERITAS Volume Manager software</li> </ul>
Data Replication	<ul style="list-style-type: none"> <li>■ Sun StorageTek Availability Suite 4 software on Solaris OS 10</li> <li>■ Sun StorEdge Availability Suite 3.2.1 software on Solaris OS 8 or 9</li> </ul> <p><b>Note</b> – Sun StorEdge Availability Suite 3.2.1 is not supported on Solaris OS 10.</p> <ul style="list-style-type: none"> <li>■ Hitachi TrueCopy RAID Manager, Solaris OS (SPARC)</li> <li>■ EMC Symmetrix Remote Data Facility</li> </ul>
Sun Cluster Geographic Edition	3.1 2006Q4

## Support for Sun StorageTek Availability Suite 4 Software

Sun StorageTek Availability Suite 4 software is supported for data replication in the 3.1 2006Q4 release of Sun Cluster Geographic Edition. The *Sun Cluster Geographic Edition Data Replication Guide for Sun StorEdge Availability Suite* has not been updated to reflect that support. The guide will be updated in a forthcoming release.

All procedures in the guide apply equally to both Sun StorageTek Availability Suite 4 software and Sun StorEdge Availability Suite 3.2.1 software with the following exceptions:

- Sun StorageTek Availability Suite 4 software commands are located in `/usr/sbin/`, not in `/usr/opt/SUNWesm/sbin/`.
- Sun StorageTek Availability Suite 4 software log files are located in `/var/adm/`, not in `/var/opt/SUNWesm/`.

## Support for EMC Symmetrix Remote Data Facility Configurations

Sun Cluster Geographic Edition 3.1 2006Q4 software currently supports the following SRDF configurations:

- Static SRDF device group
- Dynamic SRDF device group

Sun Cluster Geographic Edition 3.1 2006Q4 software currently supports the SRDF configurations in these modes:

- Synchronous
- Semi-Synchronous
- Adaptive Copy Write Pending
- Adaptive Copy -Disk
- Adaptive Copy Change Skew

## Known Issues and Bugs

The following known issues and bugs affect the operation of the Sun Cluster Geographic Edition 3.1 2006Q4 release.

### Sun Cluster Geographic Edition Infrastructure Might Remain Offline After a Cluster Reboot (6218200)

**Problem Summary:** The Sun Cluster Geographic Edition infrastructure might remain offline after a cluster is rebooted. This is a timing issue, due to the lack of synchronization between the startup of Sun Cluster Geographic Edition software and the startup of the common agent container.

**Workaround:** Once the cluster is rebooted, start the Sun Cluster Geographic Edition software by issuing the command `geoadm start`.

### No RBAC Support for SunPlex Manager (6226493)

**Problem Summary:** SunPlex Manager does not support RBAC.

**Workaround:** Invoke SunPlex Manager as superuser on the local cluster.

## SunPlex Manager Requires Same Root Password on Partner Clusters (6260505)

**Problem Summary:** To use the SunPlex Manager GUI, the root password must be the same on all nodes of both clusters in the Sun Cluster Geographic Edition deployment.

**Workaround:** If you use SunPlex Manager to configure your clusters, ensure that the root password is the same on every node of both clusters. If you prefer to not set the root password identically on all nodes, use the command-line interface to configure your clusters.

## A Custom Heartbeat Must Exist on Both the Remote and Local Cluster Before the Heartbeat Can Join a Partnership (6263692)

**Problem Summary:** If a partnership is created on a remote cluster by using a custom heartbeat, then a heartbeat by the same name must exist on the local cluster before it can join the partnership. You cannot create a heartbeat by using the GUI, so the appropriate heartbeat will not be available to choose on the Join Partnership page.

**Workaround:** Use the command-line interface (CLI) to create the custom heartbeat, and then use either the CLI or SunPlex Manager to join the partnership.

## Resource Group Attributes UNAVAILABLE From the Resource Group mbean (6302146)

**Problem Summary:** The `geopg validate` command fails, saying that it could not retrieve the resource group information for an existing resource group.

**Workaround:** Update the resource group properties to cause an update of the resource group mbean.

## SunPlex Manager Does Not Always Refresh Protection Group Status Change (6302217)

**Problem Summary:** Configuration and state changes of entities on a page displayed in SunPlex Manager should cause the page to be refreshed automatically. Sometimes the refresh does not take place.

**Workaround:** Use the navigation tree to navigate to a different page, then return to the original page. The page will be refreshed on reload.



## tcp\_udp\_plugin Reports No\_Response on Cluster Start (6412025)

**Problem Summary:** When restarting the clusters, the heartbeat is in the Degraded state and the plug-in tcp\_udp\_plugin is in the No\_Response state. On the partner cluster, the process tcp\_udp\_resp does not exist.

**Workaround:** Restart the tcp\_udp\_resp process on the partner cluster by issuing `kill -9 tcp_udp_resp` on the partner cluster.

## Neither geoadm start Nor geoadm stop Functions Properly When Sun Cluster Geographic Edition Resources are in the STOP\_FAILED State (6446765)

**Problem Summary:** It is possible that certain unusual configuration errors might leave the cluster in a state where the Sun Cluster Geographic Edition framework can neither be started (geoadm start) nor cleanly stopped (geoadm stop).

**Workaround:** It is most likely that a Sun Cluster Geographic Edition infrastructure resource is in the STOP\_FAILED state. To clear the STOP\_FAILED state, take the following actions:

1. Use the `scstat -g` command to determine which resources and resource groups are affected.
2. Clear the STOP\_FAILED flag for all resources and resource groups that are in the STOP\_FAILED state by using the following command for each:

```
# scswitch -c -j resource -h nodename -f STOP_FAILED
```

3. Manually stop the application that failed to stop.  
For example, if an ora `lsnr` failed to stop, then stop it fully. Ignore this step if the affected resources are Sun Cluster Geographic Edition infrastructure only.
4. If necessary, stop the resource groups.
  - If a resource failed to stop during a resource-group stop, then the resource group remains in the STOP\_FAILED state and you must stop it by using the following command:

```
# scswitch -F -g resourcegroup
```

- If the resources failed to stop during a restart of the resource or while the resource was being disabled, ignore this step.
5. Retry the geoadm stop command.

## geopg get Reports a Failure And Also Reports That Replication Did Occur (6456555)

**Problem Summary:** The `geopg get` command sometimes reports a failure even though replication was successful. When replicating a protection group from the partner cluster, `geopg get` failed with the following message:

```
# geopg get -s partnershipname protectiongroupname
Operation failed for the following protection groups:
  Permission denied: configuration is locked by cluster clustername.
  Retry the operation after a while.
  Protection group protectiongroupname has been replicated from
    the partner cluster clustername, but validation failed.
```

In some cases, `geoadm status` also reports the synchronization status of the protection group in Error.

If you issue the `geopg get` command again, it is rejected because the protection group has already be replicated on the local cluster.

**Workaround:** Resynchronize the protection group with the partner cluster by using the following command:

```
# geopg update protectiongroupname
```

Then revalidate the protection group by using the following command:

```
# geopg validate protectiongroupname
```

## java.lang.Exception Encountered When Using geopg set-prop (6445366)

**Problem Summary:** If the description property value includes unquoted spaces, a `java.lang.Exception` is thrown.

**Workaround:** Place quotes around description values that require spaces.

## gchb\_resd Dumps Core During geoadm start After Software is Removed and Reinstalled (6473292)

**Problem Summary:** If you use `pkgrm` to remove the Sun Cluster Geographic Edition software, the `gchb_resd` process might be left running. In this case, if you then reinstall, the process crashes.

**Workaround:** None needed. The gchb\_resd process restarts automatically.

## Required Patches

This section provides information about patches for Sun Cluster Geographic Edition 3.1 2006Q4 configurations.

**Note** – You must be a registered SunSolve™ user to view and download the required patches for the Sun Cluster Geographic Edition product. If you do not have a SunSolve account, contact your Sun service representative or sales engineer, or register online at <http://sunsolve.sun.com>.

Product	Component	Platform	Minimum Patch Level
Solaris OS 8			110380-06 110934-24
Solaris OS 10		SPARC	118562-09 118918-17
		x86	118563-10 118919-17
Sun StorEdge Availability Suite 3.2.1	Core		116466-09
	Point-in-Time		116467-09
	Remote Mirror		116468-13
Sun StorageTek Availability Suite 4	SNDR	SPARC	123246-01
		x86	123247-01
Common agent container			118671-03
			120675-01

**Note** – Check with a Sun service representative for the availability of the common agent container 120675-01 patch.

To use scalable resource groups in Sun Cluster Geographic Edition 3.1 2006Q4, you must also install one of the following patches:

- Solaris OS 10: a minimum of 120500-08

- Solaris OS 9: a minimum of 117949-23
- Solaris OS 8: a minimum of 117950-23

Check with a Sun service representative for the availability of these patches.

## Sun Cluster Geographic Edition 3.1 2006Q4 Documentation

The Sun Cluster Geographic Edition 3.1 2006Q4 user documentation set consists of the following collections:

- Sun Cluster Geographic Edition Release Notes Collection
- Sun Cluster Geographic Edition Software Collection
- Sun Cluster Geographic Edition Reference Collection

For the latest documentation, go to the docs.sun.com<sup>SM</sup> web site. The docs . sun . com web site enables you to access Sun Cluster Geographic Edition documentation on the Web. You can browse the docs . sun . com archive or search for a specific book title or subject at the following Web site:

<http://docs.sun.com>

## Sun Cluster Geographic Edition 3.1 2006Q4 Software Collection

TABLE 2 Sun Cluster Geographic Edition 3.1 2006Q4 Software Collection

Part Number	Book Title
819-4243	<i>Sun Cluster Geographic Edition Overview</i>
819-8004	<i>Sun Cluster Geographic Edition Installation Guide</i>
819-8003	<i>Sun Cluster Geographic Edition System Administration Guide</i>
819-4246	<i>Sun Cluster Geographic Edition Data Replication Guide for Sun StorEdge Availability Suite</i>
819-4245	<i>Sun Cluster Geographic Edition Data Replication Guide for Hitachi TrueCopy</i>
819-8006	<i>Sun Cluster Geographic Edition Data Replication Guide for EMC Symmetrix Remote Data Facility</i>

# Sun Cluster Geographic Edition 3.1 2006Q4 Reference Collection

This collection contains the *Sun Cluster Geographic Edition Reference Manual*, part number 819–4244.

## Documentation Issues

This section discusses known errors or omissions for man pages, documentation, or online help and steps to correct these problems.

- “Installation Guide” on page 13
- “geopg(1M) Man Page” on page 13

## Installation Guide

This section discusses errors and omissions from the *Sun Cluster Geographic Edition Installation Guide*.

### Sun Cluster Geographic Edition Installation Guide Lists EMC Symmetrix Remote Data Facility Packages for Solaris OS Version 8 (6475889)

**Incorrect Information:** In the section “Installing the Software on Solaris OS 8” in *Sun Cluster Geographic Edition Installation Guide*, the following information is included:

If you are using EMC Symmetrix Remote Data Facility data replication:

- SUNWscgrepsrdf: EMC Symmetrix Remote Data Facility data replication
- SUNWscgrepsrdfu: EMC Symmetrix Remote Data Facility data replication

**Correct Information:** EMC Symmetrix Remote Data Facility software is not supported in combination with Solaris OS 8. Disregard the incorrect information.

## geopg(1M) Man Page

This section discusses errors and omissions from the geopg(1M) man page.

### Difference Between Activating and Starting a Protection Group Is Not Clearly Defined (6438452)

**Problem Summary:** The description of the geopg start command in the geopg(1M) man page is unclear.

**Workaround:** The `-e` option defines the scope of the `geopg start` command. If you specify `-e local`, the `geopg start` command is run on the cluster partner where the command is given. If you specify `-e global`, the `geopg start` command is run on both clusters in the partnership.

When the `geopg start` command is run on the primary cluster, either by running the `geopg start -e local` command on the primary cluster or by running the `geopg start -e global` command, the Sun Cluster Geographic Edition software brings online resource groups on the primary cluster only by using the `scswitch -Z -g` command.

When the `geopg start` command is run on the secondary cluster of the partnership, either as a result of running the `geopg start -e local` command on the secondary cluster or by running the `geopg start -e global` command, resource groups are not be started on the secondary cluster. The resource group are put in the unmanaged state by using the `scswitch -u` command.

The `geopg start` command *activates* the protection group on both the primary and the secondary clusters, which starts the Sun Cluster Geographic Edition management of the resource groups. However, the resource groups start, or are brought online, only on the primary cluster.

Depending on the role of the protection group, activating the protection group might not start the resource groups that the protection group contains.

### **Incorrect Definition of TrueCopy `cluster_dgs` Property in `geopg(1M)` man Page (6454231)**

**Incorrect Information:** The `geopg(1M)` man page indicates that tuning of the `cluster_dgs` property is allowable at any time.

**Correct Information:** You can tune the `cluster_dgs` property only when the protection group is offline on both partner clusters.