



Sun Fire™ Link Software for Sun Fire 6800 Systems: Release Notes

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Sun Fire Link Software for Sun Fire 6800 Systems: Release Notes

This document provides information about the Sun Fire™ Link software, including:

- Version dependencies that Sun Fire Link software has on other software.
 - Bugs that are open at the time of this release.
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Software Requirements

TABLE 1 identifies various dependencies that the Sun Fire Link software has on other software.

Note – If one or more of the patches in TABLE 1 are not available on the CD-ROM, download them from SunSolve.

TABLE 1 List of Software Requirements

Operating environment	Solaris™ 8 2/02 or Solaris 9 12/02
RSM™ in Solaris 8	See Note below table.
RSM in Solaris 9	See Note below table.
Sun Fire 6800 firmware	5.14.0 plus patch 112883-01
Switch firmware	1.12.30
Sun™ Management Center (Sun MC)	3.0 Platform update 4 plus patches 110938-06, 112493-01, 112499-04
SunVTST™ for Solaris 8	4.6 FCS plus patch 112336-02

TABLE 1 List of Software Requirements *(Continued)*

SunVTS for Solaris 9	5.1 PS1
Java™ JDK™	Use a version of Java 1.2.2 that is later than Java 1.2.1_06
Sun Cluster	Patches 112077-03, 111796-04
HPC ClusterTools™ 4 for Solaris 8	Patches 112862-01, 111863-02, 112015-02
HPC ClusterTools 4 for Solaris 9	Patches 112862-01, 112015-02, 112014-02

Note – New information may be added to these release notes after publication. See the document *Sun Fire Link Software for Sun Fire 6800 Systems: Release Notes* on <http://www.sun.com/products-n-solutions/hardware/docs>. At this site, follow the links Cluster Interconnect -> Sun Fire Link.

Noteworthy Bugs

Firmware Bug

The following bug is listed under the category/subcategory `serengeti-sw/sc_app`.

System Controller Failure Requires Reconfiguration of Fabrics

If a System Controller fails, the Sun Fire Link fabrics must be reconfigured after the System Controller is restored. [BugID 4721389]

FM Bugs

The following bugs are listed under the category/subcategory `wildcat/fm`.

Missing Solaris 8 Patch Causes RSM Proxy to Dump Core

On systems running the Solaris 8 operating environment, the RSM proxy requires patch 109664-14. If this patch is missing, attempts to configure a Sun Fire Link cluster will result in a core dump on the compute nodes. [BugID 4719746]

Workaround/Recovery: Ensure that the required patch is added before configuring a cluster.

CTRL-C May Kill Fabric Instances

If you execute CTRL-C on a running FM CLI process, the associated fabric instance may die. It may also kill the rmiregistry, which will invalidate all running fabrics. [BugID 4744208]

Workaround/Recovery: Do not execute CTRL-C on a running FM CLI process. If this happens, rerun the related `startfabric` command and reconfigure the fabric.

Symon Bugs

The following bugs are listed under the category/subcategory `wildcat/symon`.

Problem With Initial Login to Sun MC

The first attempt to log in to Sun MC after it is installed will fail, with a warning message. [BugID 4749481]

The following warning message is displayed:

```
Warning:
A remote exception occurred during initialization, possibly
due to a server or network failure. Please verify the
accessibility of the server host and application.
```

Workaround/Recovery: Stop and then restart the Sun MC agent and server layers:

1. **Run** `/opt/SUNWsymon/sbin/es-stop -A`.
2. **Run** `/opt/SUNWsymon/sbin/es-start -A`.

Manage Partition Dialog Error

When a cluster includes both compute and switch nodes, the Delete and Properties buttons in the Manage Partition dialog may select the wrong node when pressed. This happens when the switches are listed in the table before the compute nodes. [BugID 4762810]

Workaround/Recovery: Right-click on the switch or compute node icon in the graphical representation of the partition and select either Delete or Properties from the popup menu.

Topology Name Mismatch

In Sun HPC ClusterTools systems with multiple network interfaces, if a published interface name does not match `/etc/nodename`, `hpc_rsmd` will fail to start. [BugID 4766109]

Workaround/Recovery:

1. **Copy the file** `/tmp/.wci-hpc_config` **to** `/opt/SUNWhpc/etc/tmptopo`
2. **Edit the file** `/opt/SUNWhpc/etc/tmptopo` **to contain the** `/etc/nodename` **for each node in the cluster.**
3. **Edit the** `/etc/init.d/sunhpc.hpc_rsmd` **file to contain the value:**

```
parms=' -p /opt/SUNWhpc/etc/tmptopo'
```

4. **Remove** `/tmp/.hpc*lock`
5. **Restart the** `hpc_rsmd` **using** `/etc/init.d/sunhpc.hpc_rsmd start`

RSM Bug

The following bug is listed under the category/subcategory `wildcat/rsm`.

Incorrect IPv6 Address Generation

When using IPv6 to communicate over a Sun Fire Link fabric, the IPv6 interface identifier's global bit is set incorrectly. [BugID 4739900]

Workaround/Recovery: When using IPv6 over a Sun Fire Link fabric, specify the `wrsmd` interface explicitly. For example, the following ensures that `wrsmd0` will be used for an IPv6 connection:

```
% ping -A inet6 -i wrsmd0 remote-node
```

SunVTS Bug

Increments Pass Count When No Target is Found

SunVTS 4.6 with patch 112336-02 increments the pass count when it exits after not finding a target. This is incorrect behavior. It should exit without reporting either a failure or a pass. [BugId 4746604]

This bug is fixed in SunVTS 4.6 with patch 112336-05 and in SunVTS 5.1 PS1.

Documentation Bugs

The following bug is listed under the category/subcategory `wildcat/doc`.

Sun MC `es-uninst` Removes Manually Installed FM and RSM Proxy Packages

The `es-uninst` script that is distributed with Sun MC 3.0 PU4 will remove FM and RSM proxy packages along with the Sun MC packages, even if the FM and RSM proxy packages were installed manually. [BugID 4756012]

Workaround/Recovery: If the FM and RSM proxy packages must be preserved, do not use `es-uninst` to uninstall Sun MC packages. Use `pkgrm` instead.

FM and RSM Proxy Package Errors

Pages 16 – 18 of the *Sun Fire Link Software Installation Guide* contain incorrect information about installing FM and RSM proxy packages. [BugID 4761052]

- Page 16, table of packages: Remove the `SUNwccmn` package from the Cluster Domains section. This package is needed only on the FM server.

- Page 16, table of packages: In the Dependencies column, add `SUNWwcfms` on the `SUNWrsmp` line. In other words, `SUNWrsmp` has a dependency on `SUNWwcfms`.
- Page 16, Note: The check for and removal of pre-existing packages should be done on both the FM server and the cluster nodes.
- Page 17, step 2: Remove all references to `SUNWccmn` in the `pkgadd` and `pkginfo` examples. In other words, the second, fifth, and last lines.
- Page 18: Change the procedure title to “To Install the FM Packages on the FM Server”.

Incorrect Documentation Path in Localized Software Installation Guide

Table 1 of the *Sun Fire Link Software Installation Guide* identifies the locations on the CD-ROM where the *Sun Fire Link Hardware Installation Guide* and the *Sun Fire Link Switch Installation and Service Manual* can be found. These manuals are provided in PDF format only. However, the localized versions of the installation guide incorrectly list HTML editions of these manuals as well. Ignore the HTML references. [BugID 4766617]

Outdated Screen Shots in Fabric Administrator’s Guide

Many screen shots in the *Sun Fire Link Fabric Administrator’s Guide* contain outdated information. For example, some menu lists or button labels have changed since the screen shots were captured. [EOU 4763372]

Use Floating Addresses for System Controllers in Sun Fire Link Clusters

When configuring a Sun Fire Link cluster, be certain to use floating rather than fixed IP addresses for the System Controllers that are part of the cluster. [BugID 4730786]

Confusing Explanation for the Register Nodes Dialog

Page 32 of the *Sun Fire Link Fabric Administrator’s Guide* describes the various entries to be made when registering nodes. The explanations for the Solaris Hostname and SC Hostname entries are potentially confusing. [BugID 4763378]

The manual uses the phrase “hostname of the System Controller” for both entries. Instead of System Controller, they should say “chassis”, as follows:

Solaris Hostname	Specify the hostname of the chassis, followed by a dash and the domain ID of the domain connected to the Sun Fire Link network.
SC Hostname	Enter the hostname of the chassis.

Miscellaneous Corrections for Administrator’s Guide

The following list corrects and clarifies various points found in the *Sun Fire Link Fabric Administrator’s Guide*. [BugId 4765494]

Page 14, step 3: This currently says, “Edit `/etc/group/sfladmin`, adding the user name `sfluser` to the group.” It should say, “Edit `/etc/group`, adding the user name `sfluser` to the `sfladmin` group.”

Page 19, the second and third bullets describe steps that are done using the Sun MC interface only. They do not apply to the FM command-line interface.

Page 20, step 3: The path `/var/opt/wcrsmct` shown in the code example is the base directory for this example. Also, it should be noted that `wcfm_setup` must be executed manually after the FM packages are installed. The current text implies that it will be executed automatically.

Page 21, step 3: Note that `startfabric` will also start the `rmiregistry` if it has not already been started.

Page 21, step 1: The statement, “You do not need superuser ...” is wrong. You must have superuser privileges to start `listfabrics`.

Page 21–23, step 2: The examples of `listfabrics` and `stopfabric` output are out of date.

Page 23, Note: The last sentence in the Note is no longer true. Ignore the sentence that begins, “If you delete the fabric before ...”

Page 24, Note: This Note is no longer true. You do not need to stop a fabric before you delete it. If `deletefabric` specifies a fabric that is running, it will stop it first and then delete it.

Page 155–157: The `wcfmconf` output examples are out of date.

Page 158, 159: Replace `--config` and `--nodes` with `-c` and `-n` respectively.

Page 169, step 2: Note that the `config_file` entry is optional and can be left blank. However, the `<config_file>` and `</config_file>` tags must still be included.

Page 171, step 2b: This statement is incorrect. It should read:

- b. Enter the hostname for domain a. For example, if the hostname for domain a is node1-a, enter node1-a.

Page 172, step 2: Replace “<partition_type>” with “type” and “<partition_topology>” with “topology”.

Page 172, step 9: The domain name for Sun Fire 15K/12K systems range from a-r, not a-h.

Page 177: Note that, for dual controller configurations, the <wci_stripping_level> must be set to 1 for both controllers.

Miscellaneous Errors in Hardware Installation Guide

The following errors exist in the English language version of the *Sun Fire Link Hardware Installation Guide*. [No BugId is associated with this note.]

Page 2-11: The first sentence in Section 2.5.2.1 should read:

"Figure 2-9 shows the standard cabling pattern for a three-node network with four-way striping."

Page 2-16: The first sentence in Section 2.5.4.1 should read:

"Figure 2-13 shows a five- to eight-node configuration with four Sun Fire Link switches."

Page 2-26: The first sentence in Section 2.6.4.1 should read:

"Figure 2-21 shows a five- to eight-node configuration with four Sun Fire Link switches."

Sun Fire Link Switch Cabinet Mounting

The *Sun Fire Link Systems Site Planning Guide* states that the Sun Fire Link switch is available mounted in either a Sun StorEdge™ cabinet or a Sun Fire Link cabinet. This is not accurate; the switch is only available in a Sun StorEdge cabinet. [No BugId is associated with this note.]