



Sun Fire™ 6800/4810/4800/3800 Systems Firmware 5.13.1 Release Notes

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Sun Fire™ 6800/4810/4800/3800 Systems Firmware 5.13.1 Release Notes

This document provides information on new and revised features, as well as late-breaking news, for firmware release 5.13.1 on Sun Fire 6800/4810/4800/3800 servers. If you are updating from a version of firmware other than 5.13.0, please see the *Sun Fire™ 3800–6800 System Firmware 5.13.0 Release Notes* for the list of features added in that release, as well as the information contained here.

These release notes contain the following information:

- General Information
- Known Sun Fire 6800/4810/4800/3800 Systems Limitations
- Requests for Enhancement (RFEs)

General Information

Firmware Compatibility

System boards with 5.12.x firmware are compatible with those running 5.13.0 and 5.13.1 firmware; system boards running 5.11.x are not. You can check the firmware compatibility of your boards by running the `showboards -p version -v` command.

The information displayed indicates whether the firmware for each board is compatible with the ScApp version running on the SC. For details on verifying firmware compatibility, refer to the `Install.info` file included with this firmware release and the `showboards` command description in the *Sun Fire 6800/4810/4800/3800 System Controller Command Reference Manual*.

To simplify system administration, update all your system boards to the same firmware version and activate the new firmware version on your domains as soon as possible. Activate the domain firmware by running the `setkeyswitch off` and `setkeyswitch on` commands. For details on updating your system firmware, see the release-specific `Install.info` file included with each release of the firmware.

Firmware Upgrade and Downgrade

Instructions for upgrading firmware are provided in the `Install.info` file included with this firmware release. The `Install.info` file also contains instructions for downgrading to an earlier version of the firmware.



Caution – If you have a redundant system controller (SC) configuration, be aware that you must first upgrade the firmware on the spare SC, then on the main SC, as explained in the `Install.info` file.

Firmware Upgrade for SCs Connected to a Network Switch - Upgrade Replacements Steps

If you are upgrading from firmware version 5.11.x or 5.12.x and your SCs are connected to a network switch that has spanning tree protocol (STP) enabled, you must first set up a temporary hub between the SCs and the network switch before you run the `flashupdate` command to upgrade the firmware. After you set up the hub, perform the appropriate upgrade procedures explained in the `Install.info` file, but do one of the following:

- Execute the following steps instead of steps 5 and 6 for upgrades from 5.11.x, or
- Execute the following steps instead of steps 4 and 5 for upgrades from 5.12.x.

1. Update ScApp and RTOS on the main SC:

```
schostname:SC> flashupdate -f URL scapp rtos
```

where *URL* is the URL to the directory containing the flash image for this firmware release.

2. Verify that ScApp and RTOS have been upgraded on the main SC:

```
schostname:SC> showsc
```

The output from the `showsc` command should indicate that the ScApp version is 5.13.1 and the RTOS version is 23.

3. Update the system boards:

```
schostname:SC> flashupdate -f URL system_boards
```

where *URL* is the URL to the directory containing the flash image for this firmware release and *system_boards* are all CPU/Memory boards and I/O assemblies.

Remove the hub after you complete the firmware upgrade. If you have questions regarding the hub, contact your service provider.

Automatic Domain Reboot

The default value for the `reboot-on-error` parameter of the `setupdomain` command is now set to `true`. When the system detects a domain hardware error, the following occurs:

- A message informs you that a fatal hardware error has occurred.
- The domain is automatically rebooted.

Be aware that an automatic domain error reboot can occur up to a maximum of three times. After the third error reboot, the domain is paused and the error reboots are stopped. Also be aware that an error caused by a domain panic does not apply to the automatic error reboot. Rather than restarting the domain yourself, contact your service provider for assistance on resolving a domain hardware error.

If you set the `reboot-on-error` parameter value to `false`, the domain is paused when a domain hardware error is encountered. You must then manually restart the domain (run the `setkeyswitch off` and `setkeyswitch on` commands).

Checking Clock Signals After an SC Failover

If an SC failover has occurred and you need to hot-plug an SC (remove an SC that has been powered off and then insert a replacement SC), be sure to verify that the clock signals to the system boards are coming from the new main SC before you perform the hot-plug operation. Run the `showboard -p clock` command to verify the clock signal source.

Known Sun Fire 6800/4810/4800/3800 Systems Limitations

Note – The limitations shown here are identical to those noted in the 5.13.0 Release Notes, except that BugIDs 4678341 and 4676081 have been fixed and some references to 5.13.0 have been changed to 5.13.x or 5.13.1.

DHCP Fails With S_taskLib_NAME_NOT_FOUND (Bug ID 4628965)

When you run the `flashupdate` command to downgrade SC firmware from version 5.13.x to 5.12.6, the `flashupdate` operation is cancelled and the following message is displayed:

```
dhcpcBind() failed: S_taskLib_NAME_NOT_FOUND
```

Workaround:

1. Run the `setupplatform` command to change the `Network settings` parameter to `static`.
2. Reboot the SC.

3. Run the `flashupdate` command to downgrade the SC firmware.
4. Use the `setupplatform` command to change the `Network settings` parameter to DHCP.

Fail to Set Security-Password After Clearing Out the Old One (Bug ID 4633060)

This bug occurs when the following steps are performed to set the security password for OpenBoot™ PROM (OBP):

1. Set the password and security mode.
2. Reset the domain.
3. Change or clear the security password by running the `setenv` command.
4. Change the security password to that assigned in Step 1.

Workaround: After clearing the security password, set a new security password different from the password previously used.

RTOS Prints Error Messages for Legal Configurations (Bug ID 4635885)

When a default route or DNS server (or both) is not configured, the following message, which implies something is wrong, is printed at the RTOS prompt:

```
Invalid default route ("0.0.0.0"); ignoring
```

Workaround: Ignore this message.

SC Reboots Infinite Times, When RIO Ethernet Test Fails in SC POST (Bug ID 4644974)

Workaround: When SC POST is running, press the spacebar to display the POST menu, then select option 0, `Return to SC RTOS`. Selecting this option causes POST to be skipped.

`showplatform` Output for Domain Status is Not Accurate (Bug ID 4647377)

The domain is at the OBP state due to a panic, but `showplatform` output indicates that the domain is running the Solaris operating environment.

Workaround: None.

`disablecomponent` is Not Supported Entirely for I/O Assemblies (Bug ID 4651114)

When you run the `disablecomponent` command to disable port 0 of an I/O assembly, the entire board is disabled and any components on the board are not used in the domain. However, you can disable only port 1 of an I/O assembly.

Workaround: Disable the individual slots that contain the populated cards.

Upgrade/Downgrade of Main and Spare SC Can Disturb NVC I Synchronization (Bug ID 4653120)

After the main and spare SC have been upgraded to firmware version 5.13.x, then downgraded to version 5.12.x or 5.11.x, then again upgraded to 5.13.x, the spare SC configuration is valid, but the main SC configuration becomes invalid.

Workaround: If you downgrade the SC firmware from version 5.13.x to 5.11.x or 5.12.x then upgrade your firmware to 5.13.x, you must power cycle the chassis after the upgrade. Perform the power cycle before you set each domain keyswitch to on.

The `setfailover` on Command Sometimes Results in the Failover State Being Enabled But Not Active (Bug ID 4656519)

Workaround: Do the following:

1. On the main or spare SC, run the `setfailover off` command.
2. On both the main and spare SC, look for the message indicating that the failover state is disabled. Check the failover state by running the `showfailover` command.

3. On the main or spare SC, run the `setfailover on` command.
4. On both the main and spare SC, look for the message indicating that failover is enabled and active. Check the failover state by running the `showfailover` command.

FrameManager Loses Connection Intermittently (Bug ID 4656908)

The SC sometimes loses the connection to the FrameManager, which means that status may not be updated properly for rack fan trays and redundant transfer units (RTUs) reported through the `showplatform` command.

Workaround: Reboot the SC to update the status.

SC Hangs After SC Failover, When Reset and SC Failover are Done at the Same Time (Bug ID 4662431)

Workaround: When an SC failover is occurring, do not reset the domain or perform `setkeyswitch` operations and do not run other SC commands, except the `showfailover` command.

DR in a 5.13.x Board Into a 5.12.6 Domain and Rebooting Fails (Bug ID 4673352)

A domain reboot will fail after you use dynamic reconfiguration (DR) to add a system board running 5.13.x firmware into a domain running 5.12.6 firmware.

Workaround: Do one of the following:

- After you use DR to add the board into the domain, restart the domain by running the `setkeyswitch off` and `setkeyswitch on` commands. Do not reboot the domain.
- Downgrade the system board firmware to 5.12.6 (see the `Install.info` file for instructions on downgrading firmware), then use DR to add the board to the domain. Restart the domain by running the `setkeyswitch off` and `setkeyswitch on` commands.

After Failover, Failover Status on New Spare SC is Enabled But Not Active (Bug ID 4678108)

After an SC failover, the failover status on the new spare SC sometimes indicates that failover is enabled but not active, when it should show that SC failover is disabled. After a failover, both the main and spare SC should show that failover is disabled.

Workaround: Run the `setfailover off` command on the spare SC. The spare SC will show the failover status as disabled.

Requests for Enhancement (RFEs)

SC Hangs After Automatic `setkeyswitch off` (RFE 4454599)

Manual reset of the SC has no effect.

Workaround: Do the following:

1. Connect to each active domain through a network connection, such as `telnet` or `rlogin`.
2. Shut down each domain, if possible.
3. Power down the Sun Fire system, then power it up again.

No LED Fault Indicator on System Board After the Board Fails POST (RFE 4454623)

Workaround: Run the `showlogs` or `showboards` command (from the platform shell) to show errors and the test status of a faulty system board.

Software Licensing Problems With Host ID and MAC (RFE 4492051)

The current scheme of assigning the host ID and MAC address based on which physical domain is in use (A, B, and so forth) can prevent host licensed software from running. In situations where a hardware failure would require changing domains, host licensed software refuses to start.

Workaround: It may be possible to reconfigure the system hardware to support the required domain. Contact your service provider for assistance.

Single I/O Assembly Failure Causes Boot Failure (RFE 4502247)

The I/O assemblies are not capable of being tested in isolation. For this reason the failures that become visible when I/O POST runs stop the entire boot process because the failures pause the domain hardware.

Workaround: Remove the failed I/O assembly from the domain by running the `deleteboard` command. Turn the keyswitch on by running the `setkeyswitch` command to reboot without the failed board. Refer to the *Sun Fire 6800/4810/4800/3800 System Controller Command Reference Manual* for correct usage of the `deleteboard` command.

Changing the Date On the Main SC and Doing SC Failover Affects the Domain Date (RFE 4663142)

If the SNTP (Simple Network Time Protocol) server has not been configured and the main and spare SC have different dates, an SC failover changes the domain date and time.

Workaround: Do one of the following:

- Configure the SNTP server (for details, see the `setupplatform` command description in the *Sun Fire 6800/4810/4800/3800 System Controller Command Reference Manual*) on both SCs to establish the correct date and time. Then, establish the correct domain date and time by running the `setdate` command at the domain shell, or `rdate(1M)` at the Solaris operating environment level.
- Run the `setdate` command on both SCs to set the correct date and time:

```
schostname:SC> setdate -r datehost
```

where *datehost* is the remote system used as the time server.