



Netra™ CT Server with Host Netra CP2500 Release Notes

For the Netra CT 810 and Netra CT 410 Servers

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Netra CT Server With Host Netra CP2500 Release Notes

The *Netra CT Server With Host Netra CP2500 Release Notes* contain important and late-breaking information about the Netra™ CT 410 and CT 810 servers with Netra CP2500 hosts.

- [“Known Issues” on page 2](#)
- [“Enhancements and New Features” on page 3](#)
- [“Solaris Operating System Version” on page 4](#)
- [“Firmware Versions” on page 4](#)
- [“Patches to Download and Apply” on page 5](#)

The most recent versions of the Netra CT 410 and CT 810 server documentation are available at:

<http://www.sun.com/products-n-solutions/hardware/docs/Servers/>

Known Issues

The following known issues (priorities 1-3) exist in this release of the Netra CT Server hardware and software.

TABLE 1 Known Issues

Bug ID	Problem	Comments or Workaround
6255967	Provide a seamless interface between the MOH software and the Netra High Availability Suite (NHAS).	Will fix in a future release.
6403301	The RoHS Netra CP2140 board resets after returning from OpenBoot™ PROM (OBP), even though watchdog did not expire.	Do not use the <code>break</code> command to stop Solaris OS to get to the OBP prompt. If the system is stopped in this manner, executing a <code>go</code> command may cause the board to reboot.
6528051	Removal of alarm card “config” Ethernet-interface cable causes the alarm card to reset.	Will fix in a future release.
6538018	In new Netra CT 810 servers shipped from the factory with Netra CP2500 boards, running <code>obdiag</code> displays the error message “FRUid checksum failed,” even though the result is that all FRUchecksum PASS.	The factory installed version of OpenBoot PROM™ is 4.22.27. This bug is fixed in version 4.22.30. Upgrade the preinstalled firmware as detailed in “Firmware Versions” on page 4 .

Enhancements and New Features

This release is for Netra CT 410 and CT 810 servers that are shipped with Netra CP2500 boards.

The Netra CP2500 is the next-generation processor board for use in Netra CT 410/810 servers.

Note – Netra CT servers can now be ordered with different host board and related component configurations. Servers with the Netra CP2140 host are ordered as before. Servers configured with the Netra CP2500 board are ordered under a new part number. Additionally, two documentation sets are now available on the web.

The Netra CP2500 and the corresponding rear transition modules (RTMs) are compatible (will not cause damage) with installations of the Netra CP2140 board and Netra CP2160 board. Some features and functions of the Netra CP2500, however, are not available or usable in these installations. In addition to the board and RTM, other hardware upgrades are required to use the Netra CP2500.

The Netra CP2500 is not designed to be a one-to-one feature-compatible hardware replacement for the host Netra CP2140 cPCI board or satellite Netra CP2160 cPCI board. Before replacing a host Netra CP2140 cPCI board or satellite Netra CP2160 cPCI board, compare the features to ensure that the Netra CP2500 provides the features you want for your system.

The Netra CP2500 software is fully feature-compatible with other boards when installed in a Netra 810 server or Netra 410 server chassis. All applications you currently run can be run in a server upgraded with the Netra CP2500. Software and firmware upgrades are necessary, as detailed in these *Netra CT Server With Host Netra CP2500 Release Notes*.



Caution – If you are upgrading a system that previously used the Netra CP2140 host and Netra CP2160 satellite, refer to the special upgrade instructions in the *Netra™ CT Server Hardware Upgrade Guide* and in the README file provided with the patch download file. Due to cooling and power requirements, installing a Netra CP2500 board in a server that has not been upgraded will most likely cause component damage.

Solaris Operating System Version

Solaris 9 Operating System (Solaris 9 09/05) is required for using this release of the software for the Netra CT810 and Netra CT410 servers.

Firmware Versions

For this release of the software, the CPU board firmware must be at least at the following versions:

TABLE 2 CPU Board Firmware Versions

Firmware	Netra CP2500	Netra CP2140	Netra CP2160
Firmware (OpenBoot PROM)	4.22.30	1.1.20	1.0.20
SMCFW Flash Code	5.2.5	3.6.2	4.1.3
SMCFW Boot Code	5.15.1	3.15.9	3.15.9

Note – For Netra CP2140 and Netra CP2160 components to work in systems that you upgrade with the Netra CP2500 board, the firmware versions must be at least those in [TABLE 2](#).

To display the current firmware version, use the `.version` command at the OpenBoot PROM prompt.

If you do not have the correct versions of the firmware, go to the SunSolveSM Web site, <http://www.sun.com/sunsolve>, and download the most recent versions of the following firmware patches:

- 116345 (OpenBoot PROM and SMC firmware for Netra CP2140)
- 116346 (OpenBoot PROM and SMC firmware for Netra CP2160)

Refer to the `Readme` file in the patch for any special installation instructions, and to the *Netra CP2140 Technical Reference and Installation Manual* (816-4908) or *Netra CP2160 Technical Reference and Installation Manual* (816-5772) for instructions on upgrading the firmware.

The Netra CT server alarm card firmware must be at the following versions:

TABLE 3 Alarm Card Firmware Versions

Firmware	Version
Chassis Management firmware	2.1.10
Boot Control firmware	2.1.0
BMC firmware	2.4

To display the current version, use the `version` command at the alarm card CLI prompt. If you do not have the correct version of the firmware, go to the SunSolve Web site, <http://www.sun.com/sunsolve/point>, and download the following firmware patch: 116654.

Refer to the Readme file in the patch for any special installation instructions, and to the *Netra CT Server System Administration Guide* (816-2483) for instructions on upgrading the firmware on the alarm card.

Patches to Download and Apply

If installing a new server that is configured with a host Netra CP2500, no patches are necessary at this time. If upgrading an existing system configured with a Netra CP2140 host, download and apply the newest patches.

Note – The following instructions apply to an upgrade from any previously released version of Netra CT server. The base Solaris™ 9 Operating System (Solaris OS) is assumed.

This section provides information on the patches that you must download from the SunSolve web sites for the Netra CT server and instructions on how to apply these patches. These instructions are part of the Netra CT software installation procedures that are documented in the *Netra CT Server Installation Guide* (816-2481). At a particular point in the installation procedure, you are asked to perform these tasks.

There are two types of patches to download:

- *Regular patches* are available on the main SunSolve web site, <http://www.sun.com/sunsolve>. If you specify the base Patch ID number (the first six digits) in the Search SunSolve window, you see the most recent revision of the patch.
- *Point patches* are available on the point patch SunSolve web site, <http://www.sun.com/sunsolve/point>. If you specify the base Patch ID number (the first six digits) in the Point Patch Search window, the most recent revision of the patch is located, and the system prompts you to open or save the compressed patch file.

Note – When you search for point patch releases using the base patch number, the patch revision number is noted at the top of the Open/Save dialog box. Look for text such as “The file “115860-*nn*.zip” is of type...”

Downloading Required Patches

1. Download the most recent versions of the patches listed in [TABLE 4](#).

TABLE 4 Patches Required

Patch ID	Patch Location
112945	http://www.sun.com/sunsolve
113027	http://www.sun.com/sunsolve
114349	http://www.sun.com/sunsolve
115330	http://www.sun.com/sunsolve
117037	http://www.sun.com/sunsolve/point
117036	http://www.sun.com/sunsolve/point
115859	http://www.sun.com/sunsolve/point
115860	http://www.sun.com/sunsolve/point
112824	http://www.sun.com/sunsolve/point
116654	http://www.sun.com/sunsolve/point
116700	http://www.sun.com/sunsolve/point
116677	http://www.sun.com/sunsolve/point
118583	http://www.sun.com/sunsolve/point
118956	http://www.sun.com/sunsolve

1. If you are using a DAT drive in the system, download the patches listed in [TABLE 5](#).

TABLE 5 Patches for DAT Drive

Patch ID	Patch Location
112233	http://www.sun.com/sunsolve
112834	http://www.sun.com/sunsolve
113277	http://www.sun.com/sunsolve

2. Move the patch zip files you downloaded (listed in [TABLE 4](#) and, if applicable, in [TABLE 5](#)) into the `image_directory/Solaris_9/Patches` directory, where `image_directory` is the path to the directory where the Solaris 9 install image is stored.

Refer to the *Netra CT Server Installation Guide* for more information on the `image_directory` location.

3. Perform an unzip on all of the patches that you downloaded.
4. Apply the patches as follows.

Procedures for installing patches for the Netra CT vary depending upon the system you are applying them to.

- a. If you are applying patches to a boot disk (if you installed the Solaris OS onto an internal or external hard drive), go to [“Applying Patches to a Boot Disk” on page 8](#).
- b. If you are applying patches to a network installation image for diskless clients, go to [“Applying Patches to a Diskless Service” on page 9](#).

Following are instructions for installing patches. For additional information and detailed instructions for completing the software installation process, refer to the *Netra CT Server Installation Guide*.

Applying Patches to a Boot Disk

1. **Perform a `patchadd` for each of the following patches in the following order:**

- 112945-35 (See Note)
- 113027-05
- 114349-04 (See Caution)
- 115330-01
- 117037-01
- 117036-09
- 115859-13
- 115860-08
- 112824-05
- 116654-21
- 116700-09
- 118583-01
- 118956-01
- 116677-05

Note – At a minimum, you must have patch 112945 revision -21 applied. If the revision is -20 or earlier, an update is required. If you have revision -21 or newer and do not want to update it, you can skip this patch. However, we recommend that you update the software with the most recent patch. To determine the patch revision you currently have, use the `showrev -p grep '112945'` command.



Caution – For patch 114349, this patch replaces patch 116100. If patch 116100 is on the system, remove it using the `patchrm` command before applying 114349. Patch 114349 is no longer a T patch and is available through SunSolve.

2. **If you are using a DAT drive in the system, apply the patches listed in [TABLE 5](#).**
3. **Reboot the server.**
4. **Refer to instructions in the *Netra CT Server Installation Guide* to complete the software installation procedures for a boot disk.**

Applying Patches to a Diskless Service

1. Change directories to the `/usr/sadm/bin` directory.

```
# cd /usr/sadm/bin
```

2. Use the `smosservice patch` command to apply the patches to the diskless service *in the following order*:

- 112945-35 (See Note)
- 113027-05
- 114349-04 (See Caution)
- 115330-01
- 117037-01
- 117036-09
- 115859-13
- 115860-08
- 112824-05
- 116654-21
- 116700-09
- 118583-01
- 118956-01
- 116677-05

Note – At a minimum, you must have patch 112945 revision -21 applied. If the revision is -20 or earlier, an update is required. If you have revision -21 or newer and do not want to update it, you can skip this patch. However, we recommend that you update the software with the most recent patch. To determine the patch revision you currently have, use the `showrev -p grep '112945'` command.

Caution – For patch 114349, this patch replaces patch 116100. If patch 116100 is on the system, remove it using the `patchrm` command before applying 114349.

```
# ./smossservice patch -u root -p root_password -- -a image_directory/Solaris_9/Patches/112945-35
# ./smossservice patch -u root -p root_password -- -a image_directory/Solaris_9/Patches/113027-05
# ./smossservice patch -u root -p root_password -- -a image_directory/Solaris_9/Patches/114349-04
# ./smossservice patch -u root -p root_password -- -a image_directory/Solaris_9/Patches/115330-01
# ./smossservice patch -u root -p root_password -- -a image_directory/Solaris_9/Patches/117037-01
# ./smossservice patch -u root -p root_password -- -a image_directory/Solaris_9/Patches/117036-09
# ./smossservice patch -u root -p root_password -- -a image_directory/Solaris_9/Patches/115859-13
# ./smossservice patch -u root -p root_password -- -a image_directory/Solaris_9/Patches/115860-08
# ./smossservice patch -u root -p root_password -- -a image_directory/Solaris_9/Patches/112824-05
# ./smossservice patch -u root -p root_password -- -a image_directory/Solaris_9/Patches/116654-21
# ./smossservice patch -u root -p root_password -- -a image_directory/Solaris_9/Patches/116700-11
# ./smossservice patch -u root -p root_password -- -a image_directory/Solaris_9/Patches/118583-01
# ./smossservice patch -u root -p root_password -- -a image_directory/Solaris_9/Patches/118956-01
# ./smossservice patch -u root -p root_password -- -a image_directory/Solaris_9/Patches/116677-05 -m -U
```

where `root_password` is the root password of the server and `image_directory` is the Solaris 9 installation image directory. You must add an additional `-m -U` option when you install the last patch to the installation image.

3. Manually apply the following patches:

```
# ./patchadd -R /export/root/clone/Solaris_9/sun4u image_directory/Solaris_9/Patches/112824-05
# ./patchadd -u -R /export/root/clone/Solaris_9/sun4u image_directory/Solaris_9/Patches/115859-13
# ./patchadd -R /export/root/clone/Solaris_9/sun4u image_directory/Solaris_9/Patches/115860-08
# ./patchadd -R /export/root/clone/Solaris_9/.copyofsun4u image_directory/Solaris_9/Patches/112824-05
# ./patchadd -u -R /export/root/clone/Solaris_9/.copyofsun4u image_directory/Solaris_9/Patches/115859-13
# ./patchadd -R /export/root/clone/Solaris_9/.copyofsun4u image_directory/Solaris_9/Patches/115860-08
# ./patchadd -R /export/root/clone/Solaris_9/.copyofsun4u image_directory/Solaris_9/Patches/116700-11
```

where `image_directory` is the Solaris 9 installation image directory.

4. Enter the following commands:

```
# /usr/sbin/rem_drv -b /export/root/clone/Solaris_9/sun4u cvc
# /usr/sbin/add_drv -b /export/root/clone/Solaris_9/sun4u -v -i "ssp-serial" cvc
# /usr/sbin/rem_drv -b /export/root/clone/Solaris_9/.copyofsun4u cvc
# /usr/sbin/add_drv -b /export/root/clone/Solaris_9/.copyofsun4u -v -i "ssp-serial" cvc
```

5. Refer to instructions in the *Netra CT Server Installation Guide* to complete the software installation process.