



Netra™ 440 Server Release Notes

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Netra 440 Server Release Notes

The *Netra 440 Server Release Notes* contain important and late-breaking information about the Netra™ 440 server, including:

- [“Installing the Solaris 8 7/03 Software Patches Located on the Server” on page 2](#)
- [“Installing the Solaris 9 12/03 Software Patches Located on the Server” on page 4](#)
- [“Installing the DVD-RW Drive Software” on page 5](#)
- [“Firmware and Software Versions” on page 6](#)
- [“Memory Versions” on page 7](#)
- [“Known Issues” on page 7](#)
- [“Hardware Watchdog Timer No Longer Supported” on page 9](#)
- [“Additional Advanced Lights Out Manager Information” on page 9](#)
- [“Technical Support” on page 11](#)
- [“Returning Your Netra 440 Server to Sun Services” on page 11](#)

Installing the Solaris 8 7/03 Software Patches Located on the Server

The Solaris™ 9 9/04 Operating System (Solaris OS) comes preinstalled on the Netra 440 server; however, the Solaris 8 7/03 OS is also supported on the Netra 440 server. Visit the www.sun.com Web site for information about ordering and installing the Solaris 8 7/03 OS.

You must also install additional system-specific software after you have configured your server. TABLE 1 lists the system-specific patches that must be installed after you have configured your Netra 440 server. Some of the software can be found in the `/var/spool/patch` directory of the Netra 440 server; the rest must be downloaded from the SunSolveSM Web site.

TABLE 1 Netra 440 System-Specific Software for the Solaris 8 7/03 OS

Patch ID	Description	Where located
116098-08	tsalarm POINT PATCH for Netra 240/440	SunSolve Web site
116099-07	fruid/PICL plug-ins POINT PATCH for Netra 240/440	SunSolve Web site
117254-03	lomwd driver POINT PATCH for Netra 440	SunSolve Web site
116102-02	Point Patch for <code>libprtdiag_psr.so.1</code> for Netra 440	<code>/var/spool/patch</code>

1. Go to www.sunsolve.sun.com/point, accept the onscreen agreement, then locate and download the following patches:
 - 116098
 - 116099
 - 117254

Note – To get the most recent version of the point patches, enter in the numbers as listed above, without the dash level.

2. Move all of these patches to the `/var/spool/patch` directory.

Note that older versions of several of these patches might be preinstalled in the `/var/spool/patch` directory; ignore those older versions.
3. Perform an unzip on all of the patches that you downloaded.

4. To install a patch, become superuser and type the `patchadd` and the full path to the patch:

```
# patchadd /var/spool/patch/patch-id
```

Replace *patch-id* with the patch ID number of the patch you are installing, and repeat the command to install each patch.

Refer to the README files located in the patch directories, the Solaris documentation, and the `patchadd(1M)` man page for additional information about installing patches. Note that you do not have to use the `patchadd` command on the 116102-02 patch because it is preinstalled on your server.

5. Reboot the Netra 440 server.

Refer to the *Netra 440 Server Installation Guide* (817-3882-xx) for those instructions.

Downloading Newer Patch Versions

You might be able to find newer versions of these patches on the SunSolve Web sites.

Regular patches are available on the main SunSolve Web site, <http://www.sun.com/sunsolve>. *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 search window, you see the most recent version of the patch.

Note – If a newer version of a patch is available, download and install the newer version. Refer to the SunSolve Web site for download and installation instructions.

Installing the Solaris 9 12/03 Software Patches Located on the Server

The Solaris 9 9/04 OS comes preinstalled on the Netra 440 server; however, the Solaris 9 12/03 OS is also supported on the Netra 440 server. Visit the www.sun.com Web site for information about ordering and installing the Solaris 9 12/03 OS.

You must also install additional system-specific software after you have configured your server. [TABLE 2](#) lists the system-specific patches that must be installed after you have configured your Netra 440 server.

TABLE 2 Netra 440 System-Specific Software for the Solaris 9 12/03 OS

Patch ID	Description	Where located
116676-04	Netra 440 fruid/PICL libprtdiag_psr POINT PATCH	SunSolve Web site
116661-04	Netra 440 tsalarm driver POINT PATCH	SunSolve Web site
116470-03	Netra 440 lomwd driver POINT PATCH	SunSolve Web site
116632-01	Netra 440 SUNW_misc_link POINT PATCH	SunSolve Web site

1. Install the Solaris 9 12/03 OS onto the boot disk in your Netra 440 server.

Refer to the documentation that came with the Solaris 9 12/03 OS for those instructions, then return here.

2. Go to www.sunsolve.sun.com/point, accept the onscreen agreement, then locate and download the following patches:

- 116676
- 116661
- 116470
- 116632

Note – To get the most recent version of the point patches, enter in the numbers as listed above, without the dash level.

3. Move all three of these patches to the `/var/spool/patch` directory.

Note that there may be older versions of several of these patches already pre-installed in the `/var/spool/patch` directory; ignore those older versions.

4. Perform an unzip on all of the patches that you downloaded.

5. To install a patch, become superuser and type the `patchadd` and the full path to the patch:

```
# patchadd /var/spool/patch/patch-id
```

Replace *patch-id* with the patch ID number of the patch you are installing, and repeat the command to install each patch.

Refer to the README files located in the patch directories, the Solaris documentation, and the `patchadd(1M)` man page for additional information about installing patches.

6. Reboot the Netra 440 server.

Refer to the *Netra 440 Server Installation Guide* (817-3882-xx) for those instructions.

Downloading Newer Patch Versions

You might be able to find newer versions of these patches on the SunSolve Web site.

Regular patches are available on the main SunSolve Web site, <http://www.sun.com/sunsolve>. *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 search window, you see the most recent version of the patch.

Note – If a newer version of a patch is available, download and install the newest version. Refer to the SunSolve Web site for download and installation instructions.

Installing the DVD-RW Drive Software

Before you can use the optional DVD-RW drive, you must first install the CDRW software package (`SUNWcdrw`) from the Supplement CD that came with the Solaris software. You must also download and install the appropriate DVD-RW software patch, depending on the operating system you use:

- Solaris 8 7/03—111787-03 (or newer version)
- Solaris 9—116546-01 (or newer version)

For instructions about installing the CDRW software from the Supplement CD, refer to the documentation that shipped with the Solaris software. Specifically, refer to the *Solaris Sun Hardware Platform Guide*. You can view and download this manual from:

<http://docs.sun.com/>

You can download the patch required by the operating system you are using from the SunSolve Web site:

<http://www.sun.com/sunsolve>

Refer to the README file located in the patch directory, the Solaris documentation, and the `patchadd(1M)` man page for instructions on installing these patches.

Note – If your Netra 440 server does not have the optional DVD-RW drive, you do not need to install this optical media writing software.

Firmware and Software Versions

The following firmware and software are supported on this release of the Netra 440 server:

- OpenBoot™ PROM (OBP) 4.16.x firmware
- Advanced Lights Out Manager (ALOM) 1.5.x software
- Java™ Enterprise Systems (JES) 2.0 software
- Solaris 9 9/04 Operating System

Note – OBP 4.16.x enables the use of mixed memory speeds; however, mixed memory speeds are not supported with OBP versions 4.10 through 4.15.

Memory Versions

The following DIMMs are supported for use on this release of the Netra 440 server.

TABLE 3 DIMM Pair Optional Component and Sun Part Numbers

Optional Component	Sun Part	Description
X7702A	594-0592-01	512MB, DDR (2×256) PC2100 or faster
X7703A	594-0593-01	1GB, DRR (2×512) PC2100 or faster
X7704A	594-0373-01	2GB, DRR (2×1GB) PC2100 or faster

Known Issues

[TABLE 4](#) shows the known issues with this release.

TABLE 4 Known Issues

Bug ID	Problem	Workaround
4962592	The power supply IDs shown in the Solaris <code>prtdiag</code> and <code>prtpicl</code> outputs (PSU0, PSU1, and so on) are different from those shown in the ALOM <code>showenvironment</code> output (PS0, PS1, and so on).	No workaround necessary; just be aware the PSU# outputs from the <code>prtdiag</code> and <code>prtpicl</code> Solaris commands map to the PS# outputs from the ALOM <code>showenvironment</code> command.
4962593	The alarm LED IDs shown in the Solaris <code>prtdiag</code> and <code>prtpicl</code> outputs (red, amber, or green) are different from those shown in the ALOM <code>showenvironment</code> output (OFF or ON).	No workaround necessary.
4966319	Output from the <code>prtfru</code> command on a system running on Solaris 8 is different from the output from that of a system running on Solaris 9.	No workaround necessary; just be aware that the <code>prtfru</code> command on a system running on the Solaris 8 OS will give additional information on SEGMENT: OA and SEGMENT: ED that will be missing if the same command is executed on a system running on the Solaris 9 OS.

TABLE 4 Known Issues (*Continued*)

Bug ID	Problem	Workaround
---	<p>If you are running the OBDiag tool in the non-interactive (script) mode, you may see the following warning message (note that each message below is shown as one long text string on the screen):</p> <pre>Testing /pci@1e,600000/isa@7/i2c@0,320:tests= {temperature-sensor@0.9c}</pre> <p>WARNING : Device temperature-sensor@0,9c not found in device tree</p> <p>DEVICE : /pci@1e,600000/isa@7/i2c@0,320:tests= {temperature-sensor@0.9c}</p>	<p>No workaround necessary. Ignore this warning message.</p>
5023787	<p>The Simple Network Management Protocol (SNMP) Agent for the Netra 440 server gives incorrect frequency values for PCI slots 1-4.</p>	<p>No workaround necessary. The frequency values shown in the SNMP model for PCI slots 1-4 for the Netra 440 server are incorrect and do not reflect the true frequencies for those PCI slots. Ignore the frequency values shown in the SNMP model for PCI slots 1-4 for the Netra 440 server; the frequency values shown on the server chassis and in the documentation are the correct values.</p>
5025223	<p>The watchdog timer expires unexpectedly if you set the timeout value to 1 second.</p>	<p>Do not set the watchdog timer value to 1 second. Refer to the <i>Netra 440 Server System Administration Guide</i> for more information on the watchdog timer.</p>
5006317	<p>The <code>prtf ru</code> output incorrectly shows a second fan slot in fan tray 1 (FT1), when only one slot exists. Following is the output from the <code>prtf ru</code> command; the incorrect output is shown in bold italics:</p> <pre># prtf ru ... /frutree/chassis/FT1?Label=FT1/F0?Label=F0 /frutree/chassis/FT1?Label=FT1/F0?Label=F0/fan (fru) <i>/frutree/chassis/FT1?Label=FT1/F1?Label=F1</i> /frutree/chassis/FT2?Label=FT2 /frutree/chassis/FT2?Label=FT2/F0?Label=F0 ...</pre>	<p>No workaround necessary. Ignore the line from the output showing the second fan slot in FT1.</p>

Hardware Watchdog Timer No Longer Supported

The hardware watchdog timer (`lomwd`) is no longer supported for the Netra 440 server; use the Advanced Lights Out Manager, or ALOM, watchdog timer instead (`ntwdt`). If your applications were written to pat or reset the hardware watchdog timer, you must port them over to the ALOM watchdog timer instead. Refer to the most recent *Advanced Lights Out Manager Software User's Guide* for more information on the ALOM watchdog timer (817-5481-11 or later).

The original version of the *Netra 440 Server System Administration Guide* gave information on the hardware watchdog timer (817-3884-10); that information has since been removed from the 817-3884-11 version of that document and later. If you are using the 817-3884-10 version of that document, ignore all references to the hardware watchdog timer, or download the most recent version of that document from the Netra 440 documentation Web site:

http://www.sun.com/products-n-solutions/hardware/docs/Servers/Netra_Servers/Netra_440

Additional Advanced Lights Out Manager Information

If the ALOM firmware is deleted from your system or is somehow corrupted, follow these instructions to reinstall the ALOM firmware:

1. **Locate and download the ALOM firmware at the following web site:**

<http://www.sun.com/software/download>

2. **Login to the system.**

Refer to the *Netra 440 Server Installation Guide* for those instructions.

Note – Do not attempt this procedure while logged into the system through the SERIAL MGT port.

3. **Change directories to the `/usr/platform/`uname -i`/lib` directory.**

4. If there is not a subdirectory named `images`, then create it:

```
# mkdir images
```

5. Change directories to the `images` directory.

6. Move the gzipped tar file of the ALOM firmware to the `images` directory.

7. Uncompress the gzipped tar file:

```
# gunzip ALOM_1.5_fw.tar.gz
```

8. Unpack the tar file:

```
# tar xf ALOM_1.5_fw.tar
```

The following files will be created:

- README and copyright files
- `alombootfw` (boot image file)
- `alommainfw` (main image file)

9. Load the boot image file `alombootfw` into the ALOM:

```
# /usr/platform/`uname -i`/sbin/scadm download boot alombootfw
```

Wait one minute after the `scadm` command completes before going to the next step.

10. Load the main image file `alommainfw` into the ALOM:

```
# /usr/platform/`uname -i`/sbin/scadm download alommainfw
```

Approximately two minutes after the `scadm` command completes, ALOM will be available for use.

11. Delete the tar file:

```
# rm ALOM_1.5_fw.tar
```

Technical Support

If you have any technical questions or issues that are not addressed in the Netra 440 server documentation, contact your local Sun Services representative. For customers in the U.S. or Canada, call 1-800-USA-4SUN (1-800-872-4786). For customers in the rest of the world, find the World Wide Solution Center nearest you by visiting the web site:

<http://www.sun.com/service/contacting/solution.html>

Returning Your Netra 440 Server to Sun Services

You *must* get Return Material Authorization (RMA) numbers from Sun Services or the World Wide Solution Center for each part you intend to return.

Sun Services will give you specific details on the return procedure for your geographic area. In addition, follow these guidelines in packaging the hardware and addressing the package:

- Take antistatic precautions while handling the board:
 - Handle the server only by the nonconducting edges.
 - Do not touch the components or any metal parts.
 - Always wear a antistatic wrist strap when handling the server and be sure the wrist strap is connected to ground.
- Use the original or equivalent packaging material to return the failed part.
- Ensure that the RMA number is on the box containing the part. On the outermost box, write the RMA number, the part number of its primary contents, the destination address, and the source address. International shipments also need the Sun Enterprise Services shipping number to expedite handling in U.S. customs.

