Netra™ T1 AC200 and DC200 Server

Product Notes

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Introduction

These Release Notes provide the following information:

- Descriptions of some Lights-Out Management commands that were not included in the *Netra T1 AC200 and DC200 Server User's Guide* (part number 806-5978-10).
- Instructions for re-installing Solaris 8 (10/00), and also for re-installing the Lights-Out Management (LOM) software, onto the Netra T1 server with the patches you require.
- Safety information about using the system configuration card.
- Note on the new fan configuration inside the Netra T1 server.
- Tips on installing hard disk drives.
- Product limitations.

Note – If you are re-installing Solaris 8 (10/00), and you intend to use the Lights-Out Management (LOM) facilities, you must re-install the LOM software from the CD entitled *Software Supplement for the Solaris 8 Operating Environment*. If you do not do this, the LOMlite2 facilities will not be available and layered applications that are dependent on them (for example, Sun Management Center and the Sun Netra SNMP agent) will not function correctly. For more information, see "Re-installing the Lights-Out Management (LOM) Software" on page 6.

Extra LOMlite2 `lom>` prompt commands

The Netra T1 AC200 and DC200 servers have a LOMlite2 device on the system board. This provides management facilities that enable you to:

- Power the system up or down.
- Monitor the system's temperature and the status of its power supply, fans, supply rails, fault LED and alarms even when the system is powered down.
- Configure the system to restart automatically after a lock-up.

The LOMlite2 commands are documented in Chapter **8** of the *Netra T1 AC200 and DC200 Server User's Guide* (part number 806-5978-10). However, there is some functionality that was added after the user's guide went to print. This is documented below.

Checking How Long the Server Has Been Running

● **To find out how long it is since the last system reset, type:**

```
lom> date
```

or:

```
lom> showdate
```

The Patches you Need to Apply If You Are Re-installing Solaris 8 (10/00) Onto the Server

The version of Solaris 8 (10/00) that is pre-installed on the Netra T1 servers already has all the patches you require. However, if you re-install Solaris 8 (10/00), you need to apply the patches listed in this section. You can download and find information about the latest software patches for the Solaris operating environment at:

`http://www.sunsolve.sun.com`

The patches you require if you are re-installing Solaris 8 (10/00) onto a Netra T1 server are:

- Patch 108528-04 (kernel update patch)
  If you do not apply this patch, your system will panic during the Solaris boot and install process.
- Patch 109793-04 (serial port driver patch)
  If you do not apply this patch, you will not be able to use baud rates higher than 9600 bps on the Netra T1 server's serial ports.
- Patch 110208-01 (LOMlite2 patch)
  If you do not apply this patch, you might notice that you cannot:
  - Turn serial event reporting on and off
  - Receive clearly formatted LOMlite2 output
  - Reprogram the LOMlite2 device
  - Use Sun Management Center and the Sun Netra SNMP agent properly.

Note – Do not apply patch 110208-01 until after you have re-installed the Lights-Out Management (LOM) software from the CD entitled *Software Supplement for the Solaris 8 Operating Environment*. For more information, see "Re-installing the Lights-Out Management (LOM) Software" on page 6.

Re-installing Solaris 8 (10/00) From the Network

To re-install Solaris 8 (10/00) from the network, follow the instructions provided in the *Advanced Installation Guide* (806-0597-10) supplied with the Solaris 8 (10/00) CDs. However, before you start the installation process, install patches 108528-04 (or later) and 109793-04 (or later) by following the instructions below:

1. **Download patches 108528-04 (or later) and 109793-04 (or later) from SunSolve (www.sunsolve.sun.com) onto a working directory that is either on or accessible from your install server.**

2. **Use the** `patchadd`**(1M) command to install each patch onto the Solaris 8 (10/00) boot image on your install server. To do this type:**

```
# patchadd -C install_dir_path/Solaris_8/Tools/Boot 108528-04
# patchadd -C install_dir_path/Solaris_8/Tools/Boot 109793-04
```

where *install_dir_path* is the path to the Solaris 8 (10/00) install image on the install server.

3. **Copy the patches into the spooled patch directory on your Solaris 8 (10/00) install image. To do this, type:**

```
# cp -r 108528-04 install_dir_path/Solaris_8/Patches
# cp -r 109793-04 install_dir_path/Solaris_8/Patches
```

where *install_dir_path* is the path to the Solaris 8 (10/00) install image on the install server.

4. **Now follow the instructions for installing the operating environment from the network in the** *Advanced Installation Guide* **(806-0597-10) supplied with the Solaris 8 (10/00) CDs.**

Note – Remember that, if you intend to use the Light-Out Management (LOM) facilities, you must re-install the LOM software from the CD entitled *Software Supplement for the Solaris 8 Operating Environment*. For more information, see "Re-installing the Lights-Out Management (LOM) Software" on page 6.

Re-installing Solaris 8 (10/00) From the CD-ROM

1. **Break to the OpenBoot PROM** ok **prompt and type the following (Note that ^C indicates Control-C):**

```
ok nvedit
  0:prepare-for-installation
  1:
  ^C
ok nvstore
ok setenv use-nvramrc? true
ok reset-all
```

2. **Install Solaris 8 (10/00) by following the instructions in the documentation supplied with the CDs.**

3. **When you have installed Solaris 8 (10/00), install the following patches from SunSolve:**
   - Patch 108528-04 (or later): this is the kernel update patch
   - Patch 109793-04 (or later): this is the serial driver patch

4. **When you have applied the patches, type:**

```
# shutdown
```

5. **Next, at the OpenBoot PROM** ok **prompt, type:**

```
ok setenv use-nvramrc? false
```

Caution – Do not forget to execute the setenv use-nvramrc? false command.

6. **Finally, boot your system. For example, type:**

```
ok boot disk
```

Note – Remember that, if you intend to use the Light-Out Management (LOM) facilities, you must re-install the LOM software from the CD entitled *Software Supplement for the Solaris 8 Operating Environment*. For more information, see "Re-installing the Lights-Out Management (LOM) Software" on page 6.

Re-installing the Lights-Out Management (LOM) Software

If you intend to use the Lights-Out Management facilities, you must re-install the Netra Lights-Out Management software from the CD entitled *Software Supplement for the Solaris 8 Operating Environment*. This CD is included amongst the CDs supplied with Solaris 8 (10/00). The LOMlite2 software is in the following directory: `/Netra_t_Lights_Out_Management_2.0`. The three packages you need are called: SUNWlomm, SUNWlomr, and SUNWlomu.

When you have re-installed the Lights-Out Management software, you must apply patch 110208-01 (or later) from SunSolve.

Precautions for Using the System Configuration Card

The Netra T1 AC200 and DC200 servers contain a memory card (accessible by removing the unit's front bezel) called the system configuration card. This card contains the system's MAC address, serial number, and other configuration settings. It is designed to be removable so that, if you ever need to replace an entire server, you can transfer the host ID and configuration data onto the new server. This makes the replacement of the server transparent to your network.

Caution – Never remove the system configuration card when the server is booting or running Solaris. Power the server off or down to standby mode before removing or inserting the system configuration card.

Caution – Do not handle the system configuration card unless you need to transfer it to another system. If you need to handle it for this reason, avoid contact with the gold terminals on the underside of the card.

For information about transferring the system configuration card from one server to another, refer to the *Netra T1 AC200 and DC200 Server User's Guide* (part number 806-5978-10).

The Fans Inside the Netra T1 Server

The Netra T1 contains four fans. These fans are monitored by the LOMlite2 device, so you can use the Lights-Out Management (LOM) commands to check their status.

Note – The arrangement of the components inside the Netra T1 AC200 and DC200 servers is not the same as it was inside the Netra t1 Model 100 and 105 servers. The fans are also numbered and positioned differently. For a diagram showing which fan is which inside a Netra T1 server, and for information about using the LOM commands, refer to the *Netra T1 AC200 and DC200 Server User's Guide* (part number 806-5978-10).

Additional Information on Installing a Hard Disk Drive

For full instructions on installing a hard disk drive, refer to chapter 4 of the *Netra T1 AC200 and DC200 Server User's Guide* (part number 806-5978-10). In addition to these instructions, read the following tip.

Tip – When inserting a hard disk drive into its enclosure, make sure the top of the disk drive is touching the top of the enclosure. If you try to install it with the bottom of the disk drive touching the bottom of the enclosure, the drive will not align with the slide rails inside the enclosure, and you will not be able to insert the drive.

Product Limitations

If you use SunVTS 4.1 to test the Netra T1 server, you will notice that the sutest (serial port test) fails for the ttya (LOM) port. The serial configuration and the baud rate of the LOMlite2 device are controlled from the OpenBoot PROM. However, the SunVTS 4.1 sutest tries to control the serial baud rate through Solaris, and the test fails when it tries any baud rate other than the rate that the LOMlite2 device is configured to.

The default baud rate for the LOMlite2 device is 9600 bps. You can change the baud rate by using the `setenv ttya-mode` *baud rate* command. But the SunVTS 4.1 sutest will fail for baud rates other than the one you specify, whatever that rate is.