Netra™ 240 Server Release Notes

Sun Microsystems, Inc.
www.sun.com

Part No. 817-3142-14
October 2004, Revision A

Submit comments about this document at: http://www.sun.com/hwdocs/feedback

Copyright 2004 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, California 95054, U.S.A. All rights reserved.

Sun Microsystems, Inc. has intellectual property rights relating to technology that is described in this document. In particular, and without limitation, these intellectual property rights may include one or more of the U.S. patents listed at http://www.sun.com/patents and one or more additional patents or pending patent applications in the U.S. and in other countries.

This document and the product to which it pertains are distributed under licenses restricting their use, copying, distribution, and decompilation. No part of the product or of this document may be reproduced in any form by any means without prior written authorization of Sun and its licensors, if any.

Third-party software, including font technology, is copyrighted and licensed from Sun suppliers.

Parts of the product may be derived from Berkeley BSD systems, licensed from the University of California. UNIX is a registered trademark in the U.S. and in other countries, exclusively licensed through X/Open Company, Ltd.

Sun, Sun Microsystems, the Sun logo, AnswerBook2, docs.sun.com, OpenBoot, SunVTS, SunSolve, Netra, and Solaris are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and in other countries.

All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. in the U.S. and in other countries. Products bearing SPARC trademarks are based upon an architecture developed by Sun Microsystems, Inc.

The OPEN LOOK and Sun™ Graphical User Interface was developed by Sun Microsystems, Inc. for its users and licensees. Sun acknowledges the pioneering efforts of Xerox in researching and developing the concept of visual or graphical user interfaces for the computer industry. Sun holds a non-exclusive license from Xerox to the Xerox Graphical User Interface, which license also covers Sun's licensees who implement OPEN LOOK GUIs and otherwise comply with Sun's written license agreements.

U.S. Government Rights—Commercial use. Government users are subject to the Sun Microsystems, Inc. standard license agreement and applicable provisions of the FAR and its supplements.

DOCUMENTATION IS PROVIDED "AS IS" AND ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE DISCLAIMED, EXCEPT TO THE EXTENT THAT SUCH DISCLAIMERS ARE HELD TO BE LEGALLY INVALID.

Copyright 2004 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, Californie 95054, Etats-Unis. Tous droits réservés.

Sun Microsystems, Inc. a les droits de propriété intellectuels relatants à la technologie qui est décrit dans ce document. En particulier, et sans la limitation, ces droits de propriété intellectuels peuvent inclure un ou plus des brevets américains énumérés à http://www.sun.com/patents et un ou les brevets plus supplémentaires ou les applications de brevet en attente dans les Etats-Unis et dans les autres pays.

Ce produit ou document est protégé par un copyright et distribué avec des licences qui en restreignent l'utilisation, la copie, la distribution, et la décompilation. Aucune partie de ce produit ou document ne peut être reproduite sous aucune forme, par quelque moyen que ce soit, sans l'autorisation préalable et écrite de Sun et de ses bailleurs de licence, s'il y ena.

Le logiciel détenu par des tiers, et qui comprend la technologie relative aux polices de caractères, est protégé par un copyright et licencié par des fournisseurs de Sun.

Des parties de ce produit pourront être dérivées des systèmes Berkeley BSD licenciés par l'Université de Californie. UNIX est une marque déposée aux Etats-Unis et dans d'autres pays et licenciée exclusivement par X/Open Company, Ltd.

Sun, Sun Microsystems, the Sun logo, AnswerBook2, docs.sun.com, OpenBoot, SunVTS, SunSolve, Netra, et Solaris sont des marques de fabrique ou des marques déposées de Sun Microsystems, Inc. aux Etats-Unis et dans d'autres pays.

Toutes les marques SPARC sont utilisées sous licence et sont des marques de fabrique ou des marques déposées de SPARC International, Inc. aux Etats-Unis et dans d'autres pays. Les produits protant les marques SPARC sont basés sur une architecture développée par Sun Microsystems, Inc.

L'interface d'utilisation graphique OPEN LOOK et Sun™ a été développée par Sun Microsystems, Inc. pour ses utilisateurs et licenciés. Sun reconnaît les efforts de pionniers de Xerox pour la recherche et le développement du concept des interfaces d'utilisation visuelle ou graphique pour l'industrie de l'informatique. Sun détient une license non exclusive de Xerox sur l'interface d'utilisation graphique Xerox, cette licence couvrant également les licenciées de Sun qui mettent en place l'interface d 'utilisation graphique OPEN LOOK et qui en outre se conforment aux licences écrites de Sun.

LA DOCUMENTATION EST FOURNIE "EN L'ÉTAT" ET TOUTES AUTRES CONDITIONS, DECLARATIONS ET GARANTIES EXPRESSES OU TACITES SONT FORMELLEMENT EXCLUES, DANS LA MESURE AUTORISEE PAR LA LOI APPLICABLE, Y COMPRIS NOTAMMENT TOUTE GARANTIE IMPLICITE RELATIVE A LA QUALITE MARCHANDE, A L'APTITUDE A UNE UTILISATION PARTICULIERE OU A L'ABSENCE DE CONTREFAÇON.

Contents

Netra 240 Server Release Notes 1

Installing the Software Patches Located on the Server 2

Downloading Newer Patch Versions 3

Installing the DVD-RW Drive Software 3

Number of DC-Powered Servers Permitted in the Same Rack 4

Known Issues 4

Alarm Port Pin Descriptions 5

Declaration of Conformity Updates 6

Advanced Lights Out Manager (ALOM) Software Support 6

SunVTS Software Support 7

Technical Support 8

Returning Your Netra 240 Server to Sun Services 8

Netra 240 Server Release Notes

The *Netra 240 Server Release Notes* contain important and late-breaking information about the Netra™ 240 server. This document contains the following sections:

- "Installing the Software Patches Located on the Server" on page 2
- "Installing the DVD-RW Drive Software" on page 3
- "Number of DC-Powered Servers Permitted in the Same Rack" on page 4
- "Known Issues" on page 4
- "Advanced Lights Out Manager (ALOM) Software Support" on page 6
- "SunVTS Software Support" on page 7
- "Technical Support" on page 8
- "Returning Your Netra 240 Server to Sun Services" on page 8

Installing the Software Patches Located on the Server

The Solaris™ 8 HW 7/03 operating environment comes preinstalled on the Netra 240 server. 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 240 server. This software can be found in the `/var/spool/patch` directory of the Netra 240 server.

TABLE 1 Netra 240 System-Specific Software

Patch ID Number	Description
116098-01	Point patch to support the Solaris driver that controls the alarm relays and server LEDs (`tsalarm`).
116099-01	Point patch for FRU-ID/PICL plug-in support.

Caution – The `/var/spool/patch` directory also contains a patch (115857-01) and two packages (`CDRW_1.1` and `SUNWcdrw`) that must *not* be installed. Only install the software listed in TABLE 1.

- **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:

```
# patchadd /var/spool/patch/116098-01
# patchadd /var/spool/patch/116099-01
```

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.

Downloading Newer Patch Versions

You might be able to find newer versions of these patches on the SunSolve[SM] 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.

For both types of patches, specifying the base Patch ID number (the first six digits) in the Search SunSolve window returns the most recent revision of the patch.

Note – If a version of a patch that is newer than the version identified on the preceding page is available, download and install the newer 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 1.1 software package (SUNWcdrw) from the Solaris 8 HW 7/03 Supplement CD. You must also download and install the 111787 software patch. This patch contains enhancements to the Solaris optical media writing software.

For instructions on installing the CDRW 1.1 software from the Supplement CD, refer to the documentation that shipped with the Solaris 8 HW 7/03 software. Specifically, refer to the *Solaris 8 HW 7/03 Sun Hardware Platform Guide* (817-1550). You can view and download this manual at:

http://docs.sun.com/

You can download the 111787 patch 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 this patch.

Note – If your Netra 240 server does not have the optional DVD-RW drive, you do not need to install this optical media writing software.

Number of DC-Powered Servers Permitted in the Same Rack

If you have more than six DC-powered Netra 240 servers in the same rack, you may exceed Telcordia NEBS EMI limits. For instructions on installing the server into a rack, refer to the *Netra 240 Server Installation Guide* (817-2698).

Known Issues

Following are the known issues with the latest release of the Netra 240 server hardware and software.

TABLE 2 Known Issues

Bug ID	Problem	Workaround
4936945	If you set the `sys_eventlevel` ALOM variable to 1 and reboot the server, the server console hangs.	Before rebooting the server, set the `sys_eventlevel` variable to 2 (which is the default value). Refer to the *Sun Advanced Lights Out Manager Software User's Guide for the Netra 240 Server* (817-3174) for more information about the `sys_eventlevel` variable.
4907693	You see the following message in the server's console and in the `/var/adm/messages` file: `SC Request to XIR Host due to Watchdog`.	Install the 109793 patch, which updates the `su` driver and stops these messages from being displayed and logged. You can download this patch from the SunSolve web site: `http://www.sun.com/sunsolve` Refer to the SunSolve web site for patch downloading and installation instructions.
4938116	When a DC power supply is disconnected or removed from the server, the ALOM `showenvironment` command displays a `No AC power status` message.	Although an AC power message is displayed, the DC-powered Netra 240 server has DC power supplies. Consider this status message as a generic message that a power supply has been removed or disconnected.

Alarm Port Pin Descriptions

The alarm port pin descriptions listed in the *Netra 240 Server Installation Guide* (817-2698-10) for pins 1, 2, 5, and 6 are incorrect. Pins 1 and 2 are reserved. TABLE 3 shows the correct pin descriptions for the alarm port.

Note – The updated *Netra 240 Server Installation Guide* (817-2698) contains the correct pin descriptions.

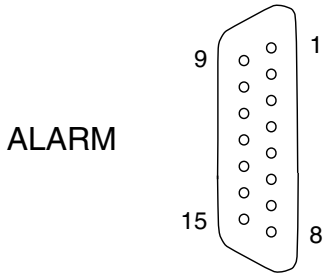

FIGURE 1 Alarm Port Pin Numbering

TABLE 3 Alarm Connector Signals

Pin	Service	Pin	Service
1	Reserved	9	ALARM1_NC
2	Reserved	10	ALARM1_COM
3	NC	11	ALARM2_NO
4	NC	12	ALARM2_NC
5	ALARM0_NC*	13	ALARM2_COM
6	ALARM0_NO*	14	ALARM3_NO
7	ALARM0_COM	15	ALARM3_COM
8	ALARM1_NO	CHASSIS	FRAME GND

* The ALOM software sets the ALARM0 (critical) relay and the associated (critical) LED for the following conditions:
- When the system is in Standby mode.
- When the system is powered on and the operating system has not booted or has failed.

In addition, page 66 of the *Netra 240 Server Installation Guide* and page 121 of the *Netra 240 Server Service Manual* incorrectly state that "the alarm port on the alarm rear transition card..." This sentence should, instead, read, "the alarm port on the rear of the server..."

Declaration of Conformity Updates

The *Netra 240 Server Safety and Compliance Manual* (817-3511-10) contains the Declaration of Conformity for the DC-powered Netra 240 server. Two of the EC Type Examination certificates listed in the Declaration of Conformity are incorrect. The corrected certificates are as follows:

- TÜV Rheinland Certificate No. S50029666
- IEC 60950:1999, 3rd Edition

Note – The updated *Netra 240 Server Safety and Compliance Manual* (817-3511-11) contains the correct certificate numbers.

Advanced Lights Out Manager (ALOM) Software Support

Advanced Lights Out Manager (ALOM) software will be supported for use on Netra 240 servers shortly after the publication of these release notes. The following changes apply to the information in the *Advanced Lights Out Manager Software User's Guide for the Netra 240 Server* (817-3174-11).

TABLE 4 Updates to Existing *Advanced Lights Out Manager Software User's Guide for the Netra 240 Server*

Location of Change	Description of Change
Page 2	Fans entry now reads, "whether a fan is present, fan speed, and whether the fans report OK status."
Page 2	A new entry at bottom of table reads, "Alarm port: Status of the alarm port."

TABLE 4 Updates to Existing *Advanced Lights Out Manager Software User's Guide for the Netra 240 Server*

Location of Change	Description of Change
Page 16	"Powering On Your Host Server," second paragraph now begins, "As soon as power is applied to the host."
Page 118	Add the following text below Table 5-12, "If you specify a value that has more than five digits, the timeout will be set to 0."
Page 129	Add the following text below Table 5-20, "If you specify a value that has more than five digits, the timeout will be set to 0."

SunVTS Software Support

The SunVTS™ software, the Sun Validation Test Suite, is an online diagnostics tool for verifying the configuration and functionality of hardware controllers, devices, and platforms. Before you can check the functionality of the Netra 240 server, you must first install and update the SunVTS software.

- **Download and install the SunVTS 5.1 PS5 software packages.**

  You can download the SunVTS 5.1 PS5 software packages from the Sun OEM Software web site:

  `http://www.sun.com/oem/products/vts/`

  Refer to the Sun OEM Software web site and the SunVTS documentation for installation instructions.

  After installing the SunVTS software, you can use the SunVTS software to evaluate your server. Refer to the *Netra 240 Server System Administration Guide* (817-2700-*xx*) and the SunVTS documentation for information on using the SunVTS software.

Technical Support

If you have any technical questions or issues that are not addressed in the Netra 240 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 240 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.