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## Netra j 2.0 Installation Guide

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## Netra j 2.0 Installation Guide

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Revision A, February 1998

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# Netra j 2.0 Installation Guide

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This guide describes how to install the Netra j 2.0 software from the CD-ROM and how to perform the initial configuration of the Netra j server. It includes instructions for a quick installation and a customized installation for experienced system administrators. In addition, it includes a form you can use to gather the information you will need for setting up network computers. This guide contains the following main topics:

- “Hardware and Software Requirements” on page 2
- “Installing Netra j 2.0” on page 2
- “Upgrading to Netra j 2.0 ” on page 5
- “Installation Notes” on page 9
- “Running Netra j 2.0” on page 14
- “Network Computer Configuration Form ” on page 19

After completing the installation and the Network Computer Configuration Form, refer to the *Netra j 2.0 Administrator’s Guide* for instructions on using Netra j 2.0. This guide is available on the Netra j 2.0 CD-ROM and accessible on the Web at <http://docs.sun.com>.

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**Note** - If you have downloaded the Netra j 2.0 software from the Netra j 2.0 purchase website, go directly to the README file that was downloaded with the software for installation instructions.

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# Hardware and Software Requirements

You can install Netra j 2.0 software on any SPARC<sup>®</sup> system running the Sun<sup>®</sup> Solaris<sup>®</sup> operating environment, version 2.5.1 or later. Solaris 2.6 systems should have the full Solaris 2.6 distribution installed, as opposed to subsets such as the end-user cluster.

You will need an HTML-based web browser to administer Netra j 2.0. HotJava<sup>™</sup> Browser is provided as part of this software.

Netra j 2.0 requires a web server at port 80. Netra j automatically configures a Sun<sup>®</sup> WebServer<sup>™</sup> web server at port 80 during the installation, unless another web server is already running on port 80.

Netra j uses Sun WebServer as the administration web server on port 81. This web server must not be replaced by any other web server. For more information, see “Netra j Web Servers” on page 11.

Some systems have additional requirements, as shown in Table 1-1.

**TABLE 1-1** Special Requirements for Netra j 2.0

---

If you are installing Netra j 2.0 ...	Make sure your system has the following.
As an upgrade to Netra i 3.1 or 3.1.1	Sun packages SUNWadmap and SUNWscpu These packages can be installed from the Netra Recovery CD-ROM, which accompanied the Netra i product CD-ROM.
On a 2.5.1 system and you plan to administer the HotJava Views Calendar	The Common Desktop Environment (CDE) CDE is available on the Solaris Update CD-ROM.

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## Installing Netra j 2.0

After mounting the Netra j 2.0 CD-ROM following the procedure below, you can install Netra j 2.0 using either the quick installation or the customized installation. The quick installation quickly installs the Netra j 2.0 software, including all patches,



on your machine. The customized installation is for experienced system administrators who need to customize the Netra j 2.0 installation.

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**Note** - If you are upgrading to Netra j 2.0 from a previous Netra version, go to “Upgrading to Netra j 2.0 ” on page 5.

---

## ▼ To Mount the Netra j 2.0 CD-ROM

1. At a Command Tool prompt, enter the root directory as “superuser.”

```
% su Password: #
```

2. Verify that Volume Manager is running.

```
# ps -ef | grep vold
```

If Volume Manager is running, it will be listed as a `vold` process similar to the following:

```
root 215 1 0 07:52:06 ? 0:01 /usr/sbin/vold
```

If the `vold` process is not running, initiate Volume Manager. For instructions on how to do this, refer to the *Solaris Handbook for SMCC Peripherals* available at <http://docs.sun.com>. From the main web page, click the following links in the order shown.

- System Administration
- Solaris 2.6 on Sun Hardware AnswerBook.

3. When Volume Manager is running, insert the Netra j 2.0 CD-ROM into the CD-ROM drive.

The Volume Manager automatically creates a mount point for the CD-ROM.

## ▼ To Perform a Quick Installation

1. Change to the `/cdrom/cdrom0/Tools` directory.

```
# cd /cdrom/cdrom0/Tools
```

2. Use the `netra_install` script to install the Netra j software.

```
# ./netra_install
```

3. If a web server was already set up at port 80 prior to the Netra j 2.0 installation, see “Netra j Web Servers” on page 11.

After you complete the installation, see “Running Netra j 2.0” on page 14.

## ▼ To Perform a Customized Installation

1. Change to the `/usr/sbin` directory.

```
# cd /usr/sbin
```

2. Start Admintool by typing `swmtool`.

```
# ./swmtool
```

The Admintool: Software window is displayed.

3. Choose **Edit Add**.

The Admintool: Set Source Media window is displayed.

4. Select **CD with Volume Management** if you are running Volume Management or **CD without Volume Management** as the software location.

5. Type the path to the source media in the CD path.

```
/cdrom/cdrom0/Product
```

The Admintool: Add Software window is displayed.

6. Make sure the **Netra j box** is checked.

7. Check the **Solaris 2.5.1 Add-ons** box if your system is running Solaris 2.5.1.

If your system is running Solaris 2.6, it already has all the Add-on software.

8. **Optionally, click Customize to deselect packages from either the Netra j or the Solaris Add-ons cluster.**

All of the Netra j 2.0 software packages are listed in Admintool.

9. **Click Add.**

The Netra j packages are installed on your system.

---

**Note** - Ignore the license warnings from the IMAP server during the installation.

---

10. **Choose File Exit to close Admintool.**

11. **If a web server was already set up at port 80 prior to the Netra j 2.0 installation, see “Netra j Web Servers” on page 11.**

To install Solaris 2.5.1 or Solaris 2.6 patches, see “Installing Solaris Patches” on page 10.

After you complete the installation, see “Running Netra j 2.0” on page 14.

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## Upgrading to Netra j 2.0

The Netra j 2.0 CD-ROM includes upgrade scripts to simplify the upgrade from either Netra j or Netra i.

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**Note** - Upgrading from Netra j 1.0 (developer’s release) is not supported.

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Table 1–2 shows the locations for upgrade instructions. Find your current platform and Netra level in the columns on the left. Your instructions are determined by whether you are planning to upgrade from Solaris 2.5.1 to 2.6.

**TABLE 1-2** Netra j 2.0 Upgrade Chart

Current Platform	Current Netra Level	Upgrading to Solaris 2.6?	See...
Solaris 2.5.1	Netra j 1.1	Yes	“To Upgrade to Netra j 2.0 and Solaris 2.6 ” on page 7
		No	“To Upgrade to Netra j 2.0 Without Upgrading Solaris ” on page 9
	Netra i 3.1(.1)	Yes	“To Upgrade to Netra j 2.0 and Solaris 2.6 ” on page 7
		No	“To Upgrade to Netra j 2.0 Without Upgrading Solaris ” on page 9
	Netra i 3.2	Yes	“To Upgrade to Netra j 2.0 and Solaris 2.6 ” on page 7
		No	“To Upgrade to Netra j 2.0 Without Upgrading Solaris ” on page 9
Solaris 2.6	Netra i 3.2	n/a	“To Upgrade to Netra j 2.0 Without Upgrading Solaris ” on page 9

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**Note** - After an upgrade, the password to Netra j Administration is changed to setup.

---

## Netra i Third-Party Product Support

Table 1-3 shows which Netra i 3.1/3.2 third-party products are supported after an upgrade to Netra j 2.0. Supported products are determined by the Netra j 2.0 server platform after the upgrade (whether or not the platform itself was upgraded). Note that after an upgrade from Netra i 3.1 to Netra j 2.0 on Solaris 2.6, none of the third-party security products are supported.

---

**Note** - After the upgrade, use Netscape Navigator to administer Netscape Enterprise Server. HotJava Browser cannot be used for Netscape Enterprise Server administration.

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**TABLE 1-3** Netra i Third-Party Product Support

Original Netra i Version and Third-Party Products	Platform After Upgrade to Netra j 2.0	Third-Party Products Supported After Upgrade
Netra i 3.1WebStalker 1.0.0VirusWall 1.52FireWall-First! 2.0Netscape Enterprise Server 2.0	Solaris 2.5.1	VirusWall 1.52FireWall-First! 2.0Netscape Enterprise Server 2.0
	Solaris 2.6	Netscape Enterprise Server 2.0
Netra i 3.2 WebStalker 1.1VirusWall 2.0FireWall-First! 3.0Netscape Enterprise Server 2.0	Solaris 2.5.1	WebStalker 1.1VirusWall 2.0FireWall-First! 3.0Netscape Enterprise Server 2.0
	Solaris 2.6	WebStalker 1.1VirusWall 2.0FireWall-First! 3.0Netscape Enterprise Server 2.0

- WebStalker 1.0.0 will not run with Sun WebServer.
- WebStalker 1.1 requires a patch which is installed automatically by `netra_install` if WebStalker is installed. If `netra_install` will not be used to install Netra j 2.0, see “To Install Solaris Patches” on page 10.
- FireWall-First! should only be enabled on Netra j servers with more than one network interface. In such cases the firewall policy can be installed on an interface that is not used to boot JavaStation computers. If the firewall policy is installed on an interface used to boot JavaStation computers, it will prevent the boot.

## ▼ To Upgrade to Netra j 2.0 and Solaris 2.6

1. If your Netra server hardware includes a diskette drive, insert a blank diskette into the drive.
2. On the Netra j CD-ROM, change to the `Tools` directory.

```
# cd /cdrom/cdrom0/Tools
```

3. Use the `netra_save` script to save the existing Netra configuration to a diskette.

```
# ./netra_save
```

---

**Note** - If your Netra server hardware does not include a diskette drive, save the Netra configuration to the local file system, then copy the file `/var/tmp/netra/netraj2_0.tar` to tape or to a remote machine on the local area network.

---

**4. Perform a file system backup and install the Solaris 2.6 Entire Distribution (size 641 MB) from the Solaris 2.6 CD-ROM.**

Follow the instructions in the *Solaris Advanced Installation Guide*, which is available at <http://docs.sun.com>. From the main web page, click the following links in the order shown.

- System Administration
- Solaris System Administrator Collection Vol 1.

**5. If you copied the file `/var/tmp/netra/netraj2_0.tar` to tape or to a remote machine in Step 1 on page 3, restore the file to `/var/tmp/netra/netraj2_0.tar` on the Netra file system.**

**6. Use the `netra_install` script to install the Netra j software.**

```
# ./netra_install
```

**7. Use the `netra_restore` script to restore the Netra configuration.**

```
# ./netra_restore
```

**8. If Netra j 2.0 will be used to administer JavaStation \ brick models, see “Brick Model Clients” on page 9.**

**9. If a web server was already set up at port 80 prior to the Netra j 2.0 upgrade, see “Netra j Web Servers” on page 11.**

If your previous Netra server contained user web pages created as part of an HTML document hierarchy, you should now restore these files using the file system backup media created as part of Step 1 on page 3.

## ▼ To Upgrade to Netra j 2.0 Without Upgrading Solaris

---

**Note** - HotJava Views configuration information is not preserved in an upgrade from Netra j 1.1 to Netra j 2.0.

---

1. On the Netra j CD-ROM, change to the `Tools` directory.

```
# /cdrom/cdrom0/Tools
```

2. Use the `netra_upgrade` script to save the Netra configuration, remove the existing Netra software, install Netra j 2.0, and restore the Netra configuration.

```
# ./netra_upgrade
```

3. If Netra j 2.0 will be used to administer JavaStation brick models, see “Brick Model Clients” on page 9.
4. If a web server was already set up at port 80 prior to the Netra j 2.0 upgrade, see “Netra j Web Servers” on page 11.

---

## Installation Notes

This section contains background information on Netra j and special installation instructions.

### Brick Model Clients

If you are upgrading to Netra j 2.0 from a previous Netra version and are using Netra j to administer JavaStation brick model (JavaStation with microSPARC<sup>®</sup>-II) clients, you must modify the `/etc/bootparams` file.

The JavaOS directory has changed from:

```
/export/root/JavaDesktop
```

to:

```
/export/root/javaos/JDM1
```

Thus for each JavaStation, you must change the following line in the `/etc/bootparams` file:

```
javastation_name root=bootserver:/export/root/JavaDesktop bootype=js
```

to:

```
javastation_name root=bootserver:/export/root/javaos/JDM1 bootype=js
```

## Installing Solaris Patches

When you install Netra j 2.0 using the install script, software patches for Solaris 2.5.1 and Solaris 2.6 are installed in the `/netraj_install_directory/Patches` directory. If you use Admintool to install Netra j 2.0, you need to follow this procedure to install the patches.

---

**Note** - Man pages for the Dynamic Host Configuration Protocol (DHCP) are located in the `/netraj_install_directory/Patches/5.5.1/iss_man_dhcp_sparc-01` directory.

---

### ▼ To Install Solaris Patches

1. At a Command Tool prompt, enter the root directory as “superuser.”

```
% su Password: #
```

2. Change to the patch directory for your version of Solaris.
  - If your system is running Solaris 2.5.1, type:



```
# cd /netraj_install_directory/Patches/5.5.1
```

- If your system is running Solaris 2.6, type:

```
# cd /netraj_install_directory/Patches/5.6
```

**3. Type `ls`.**

The patch numbers are listed as subdirectories.

**4. Change to a patch subdirectory.**

For example:

```
# cd 103891-05
```

**1. Type the following command.**

```
# ./installpatch .
```

## Netra j Web Servers

Netra j requires two web servers. One web server resides at port 81 and serves the pages of the Netra j Administration Interface to a web browser. The other resides at port 80 and delivers the HotJava Views application to JavaStation computers during the JavaStation boot sequence.

Sun WebServer software is installed on your machine during the Netra j installation, and Netra j configures web servers at ports 80 and 81 as follows:

- Netra j automatically configures a Sun WebServer at port 81.
- Netra inspects port 80, which is the default port for web servers. If a web server is not running on your machine at port 80, Netra j configures a Sun WebServer at that port. If a web server is running at port 80 (Netscape Enterprise, for example), Netra j leaves the existing web server intact but does not configure it for use with Netra j.

## ▼ To Configure an Existing Web Server for Use With Netra j

1. Create a symbolic link called `jdk` from the web server's document root directory to the HotJava Views document directory.

```
# ln -s /opt/SUNWjdk/lib web_server_document_root/jdk
```

2. Create a symbolic link called `jdk` from the web server's `cgi-bin` directory to the HotJava Views `cgi-bin` directory.

```
# ln -s /opt/SUNWjdk/cgi-bin web_server_cgi_bin_directory/jdk
```

3. Provide the web server with access to `cgi` programs and documents.

In the access control file for the web server, provide access to `web_server_document_root` and to `web_server_cgi_bin_directory`.

## Netra j 2.0 and NIS Kit 1.2 AnswerBook Collections

The AnswerBook collections listed in Table 1-4 reside in the `Misc` directory on the Netra j 2.0 CD-ROM but are not automatically installed with Netra j 2.0.

TABLE 1-4 AnswerBook Collections on the Netra j 2.0 CD-ROM

AnswerBook Collection	Package Name
NIS Kit 1.2	SUNWnskta
Netra j 2.0	SUNWnjdoc

To install an AnswerBook collection, mount the Netra j 2.0 CD-ROM as described on "To Mount the Netra j 2.0 CD-ROM" on page 3 and type the following commands, where `package_name` is a package name listed in Table 1-4.

```
# cd /cdrom/cdrom0/Misc# pkgadd -d . package_name
```

---

**Note** - For further information on installing an AnswerBook collection, or for installing AnswerBook on a server, refer to the *Information Library for Solaris 2.6 (SPARC Platform Edition)*.

---

## GO-Joe Server Software

GO-Joe server software resides in the `Misc` directory on the Netra j 2.0 CD-ROM but is not automatically installed with Netra j 2.0. This software should be installed on the JavaStation X server, which can be the Netra j server itself or another system on the network. GO-Joe server software can be installed using either `Admintool` or `pkgadd`.

To install GO-Joe server software on a non-Solaris system, follow the vendor's instructions for adding a package to the system.

---

**Note** - GO-Joe client software is installed on the Netra j server during the Netra j 2.0 installation. For information on setting up JavaStation computers to use GO-Joe client software, refer to the *Netra j Administrator's Guide*.

---

### ▼ To Install GO-Joe Server Software Using `Admintool`

1. Insert the Netra j 2.0 CD-ROM into the X server's CD-ROM drive.
2. Mount the CD-ROM as described on "To Mount the Netra j 2.0 CD-ROM" on page 3.
3. Change to the `/usr/sbin` directory.

```
# cd /usr/sbin
```

4. Start `Admintool` by typing `swmtool`.

```
# ./swmtool
```

The `Admintool: Software` window is displayed.

5. Choose **Edit Add**.

The Admintool: Set Source Media window is displayed.

6. **Select CD with Volume Management if you are running Volume Management or CD without Volume Management as your Software Location.**
7. **Type the path to the source media in the CD path.**

```
/cdrom/cdrom0/Misc
```

The Admintool: Add Software window is displayed.

8. **Check the GO-Joe Host Software box.**
9. **Click Add.**  
The GO-Joe server software is installed on your system.
10. **Choose File Exit to close Admintool.**

## ▼ To Install GO-Joe Server Software Using `pkgadd`

1. **Insert the Netra j 2.0 CD-ROM into the X server's CD-ROM drive.**
2. **Mount the CD-ROM as described on "To Mount the Netra j 2.0 CD-ROM" on page 3.**
3. **Type the following commands:**

```
# cd /cdrom/cdrom0/Misc# pkgadd -d . SUNWgjavxs
```

---

## Running Netra j 2.0

This section describes the Netra j 2.0 Solaris user account and explains how to start Netra j 2.0 and perform the initial configuration, which is required the first time you start Netra j 2.0.

# Netra j 2.0 Solaris User Login Account

The Netra j 2.0 installation creates a Solaris user account called `setup` that automatically launches HotJava Browser, the browser required to operate HotJava Views Administration pages in the Netra j 2.0 interface. HotJava Views Administration pages use features of the Java ` Developer's Kit (JDK `) 1.1 that are not currently supported by industry-standard browsers.

All other Netra j Administration pages can be operated from any industry-standard browser. Use HotJava Browser for the best results.

## ▼ To Log in to the Netra j 2.0 Account

1. After installing Netra j 2.0, log out of your Netra j system.

```
# logout
```

2. Log in as `setup` and type `setup` as the password.

```
login: setup Password:
```

HotJava Browser is launched and the Login Required window is displayed.

---

**Note** - If you do not log in as `setup`, follow the instructions in "Starting Netra j 2.0" on page 16.

---

3. Type `setup` in both the Login and Password fields.  
HotJava Browser displays the Initial Configuration page.
4. Select **Edit Preferences Display**.  
The Display Preferences window is displayed.
5. Change the **Navigation Buttons and Locator settings from None to At Top, and click OK**.
6. Perform the **Initial Configuration**.  
See "Configuring Netra j 2.0" on page 16.

## Starting Netra j 2.0

If you log in to your Netra j system using an account other than `setup`, start Netra j 2.0 as described below.

### ▼ To Start Netra j 2.0

**1. Start a browser:**

To operate the HotJava Views Administration pages in the Netra j 2.0 interface, you must use HotJava Browser. To start HotJava Browser, type:

```
% /opt/SUNWnhjb/bin/hotjava
```

Make sure the preference for unsigned applet security is set to “Medium” and the preference for signed applet security is set to “Low.”

All other Netra j Administration functions can be executed from any industry-standard browser. Use HotJava Browser for the best results.

**2. Open the following URL location:**

```
http://hostname:81/
```

A login window is displayed.

**3. Type `setup` for both the User ID and password.**

The Initial Configuration page displays the required administration modules in the order in which they should be configured.

## Configuring Netra j 2.0

The first time you start Netra j 2.0, you must perform the initial configuration.

### ▼ To Perform the Initial Configuration

**1. Click the highlighted System Defaults option.**

The System Defaults Administration page is displayed with the default time zone and default system locale.

2. **If necessary, select a new default system time zone from the pick list and then click OK.**
3. **Click the forward arrow icon to advance to the next configuration task, or click the Home hyperlink and select the highlighted Host Name option.**

The Host Name Administration page is displayed.

4. **Type the name of the server.**

A message to restart the server is displayed. The server can be restarted once configuration is completed.

---

**Note** - If the server is restarted at this time, the initial login sequence (with the new host name) must be repeated to load the Initial Configuration page. At this point, the Host Name option will not be shown as one of the remaining configuration tasks. Proceed to the next administration module.

---

5. **Click the forward arrow icon to advance to the next configuration task.**

The System Administrator Alias Administration page is displayed.

The System Administrator Alias is the list of people who will receive mail addressed to the system administrator (who is also known as the UNIX root user). Each item on the list must be a valid mail address. Valid alias members who cannot be reached at configuration time will be added to the alias, but any mail sent to that alias will not be delivered.

6. **Type the names of aliases for the system administrator and then click OK.**

Separate each name with a comma.

7. **Click the forward arrow icon to advance to the next configuration task.**

The Root Password Administration page is displayed.

Netra j provides a superuser account called `root`. When the Netra j server is accessed by the root user, many of the restrictions that apply to regular user accounts are removed. For example, the root user can read, write, or delete any file, or change the system configuration. To protect these privileges, the `root` account has a password.

8. **Type the current root password, if any, into the upper field.**

9. **Type the new root password in the middle and lower fields and click OK.**

10. **Click the forward arrow icon to advance to the next configuration task.**

The Administration Password Administration page is displayed.

**11. Type the password `setup` into the upper field.**

**12. Type the new administration password in the middle and lower fields and then click OK.**

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**Note** - If the Administration Web Server password is changed, the browser connection must be authenticated.

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**13. Use the forward arrow icon to advance to the next configuration task.**

A browser window opens, indicating that authorization has failed.

**14. Click OK.**

**15. In the Password Window, type `setup` in the User ID field and type the *new password* in the Password field.**

**16. Click OK.**

The Add Ethernet TCP/IP Interface Administration page is displayed.

**17. Type the Host Name or the Host Address of the interface into the upper field.**

The host name should exist in the Local Name Service.

**18. Type the netmask into the lower field.**

If you do not know the netmask, leave this field blank.

**19. Click OK.**

**20. Click the forward arrow icon to advance to the Main Administration page.**

The Main Administration page is displayed.

## ▼ To Complete the Configuration

**1. Use the displayed modules to perform any further system configuration tasks, such as setting up mail aliases, configuring a name service, or setting routing options.**

Refer to the relevant chapters in the *Netra j Administrator's Guide* for additional information on each administration module.

**2. Once server configuration is complete, save the configuration information as follows:**



- a. **Insert a blank diskette into the disk drive.**  
If there is no disk drive in the server, proceed to Step b.
  - b. **Click System Administration: Save and Restore Configuration.**
  - c. **If you are saving the configuration to diskette, click Save configuration to diskette; otherwise, click Save configuration to file system.**
3. **If the server was not restarted after entering the host name, do the following:**
    - a. **Click System Administration: Restart and Shutdown.**  
The Restart and Shutdown Administration page is displayed.
    - b. **Click the Restart option.**
    - c. **Click OK to proceed with the restart process.**  
The server will be restarted with the new configuration.

You are now ready to set up JavaStation clients in your network. To begin the configuration, complete the Network Computer Configuration Form that follows.

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## Network Computer Configuration Form

This form shows the information you must have on hand when you set up network computers in your network. Complete this form and then refer to the *Netra j Administrator's Guide* to complete the network computer configuration.

Field Name	Description	Your System Information
NIS Domain Name	The NIS domain in which the network computers reside.	_____
NIS Server Address (optional)	The host address(es) of NIS servers for the network computers.	_____
DNS Domain Name	The DNS domain in which the network computers reside.	_____
DNS Server Address	The host address of the DNS server for the network computers.	_____

Field Name	Description	Your System Information
Boot Server Address	The host address of the network computer boot server on the local network. The boot server provides DHCP, TFTP, and NFS services.	
Time Server Address	The IP address of a server supporting the NTP protocol.	
Router Address (optional)	The host address(es) of the routers to be used by the network computers. If not specified, the JavaOS on each network computer will broadcast looking for a router.	
Lease Time	The duration (in days) of an IP address lease. IP addresses are leased to network computers, not assigned permanently. For more information, refer to the <i>Netra j Administrator's Guide</i> .	
Lease Negotiation	A yes or no value that specifies whether the boot server renews the IP address leases of clients requesting lease renewal.	
Network Interfaces	A list of the network interfaces accessible to the Netra j system. Each interface is associated with a physical device. However, a physical device can have multiple network interfaces.	
Input Method Server	A server with a language engine to interpret the keyboard input method (for Korean, Chinese, and Japanese languages only). This server must be running a localized version of Solaris.	
Input Method Port	The port where the language engine is accessible.	
Time Zone	The time zone in which the network computers are located.	

Field Name	Description	Your System Information
Fonts Server (optional)	The host address or host name of the fonts server for the network computers. A fonts server is required if alternate fonts will be used by the network computers. For more information, refer to the <i>Netra j Administrator's Guide</i> .	
FONTSDirectory (optional)	The directory location of the fonts for the network computers.	
Localized Resources Server (optional)	The host address or host name of the localized resources server for the network computers. Localized resources, such as keyboard mapping tables, support network computer operation in different languages. For more information, refer to the <i>Netra j Administrator's Guide</i> .	
Localized Resources Directory (optional)	The directory location of the localized resources for the network computers.	
Login Locales List	The list of locales presented as choices to the user logging on to a network computer.	
JavaOS Command Line (optional)	The JavaOS command line is a formatted text string containing definitions of either JavaOS or system properties. These properties control characteristics of JavaOS such as the language it uses. For more information, refer to the <i>Netra j Administrator's Guide</i> .	