Sun N1 Service Provisioning System User's Guide and Release Notes for the Sun Java System Web Server Plug-In 2.0

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Part No: 819–2902–10
September 2005

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Preface

The *Sun N1 Service Provisioning System User's Guide and Release Notes for the Sun Java System Web Server Plug-In 2.0* explains how to use the Sun N1™ Service Provisioning System software to capture and deploy the Sun Java™ System Web Server 6.1 2005Q4 SP5.

Note – In this document the term "x86" refers to the Intel 32–bit family of microprocessors and compatible 64–bit and 32–bit microprocessors made by AMD.

Who Should Use This Book

The main audience for the Sun N1 Service Provisioning System User's Guide and Release Notes for the Sun Java System Web Server Plug-In 2.0 includes system administrators and operators of the N1 Service Provisioning System software who want to be able to deploy and control the Sun Java System Web Server 6.1 2005Q4 SP5 with N1 Service Provisioning System software. These users are expected to be familiar with the following:

- The N1 Service Provisioning System product
- Standard UNIX® commands and utilities
- General concepts and management features available in the Sun Java System Web Server 6.1 2005Q4 SP5 product

Before You Read This Book

If you are not already familiar with using the N1 Service Provisioning System software and the Sun Java System Web Server 6.1 2005Q4 SP5, read the following books:

- *Sun Java Enterprise System 2005Q4 Installation Guide for UNIX*
- *Sun N1 Service Provisioning System 5.1 System Administration Guide*
- *Sun N1 Service Provisioning System 5.1 Operation and Provisioning Guide*
- *Sun N1 Service Provisioning System 5.1 Release Notes*

How This Book Is Organized

Chapter 1 provides an overview of the plug-in solution.

Chapter 2 describes installation and runtime issues.

Chapter 3 explains how to install and configure the plug-in.

Chapter 4 explains how to use the provisioning system to install, delete, and control the Sun Java System Web Server 6.1 2005Q4 SP5 Administration Server and Web Server Instances.

Chapter 5 describes the components, plans, and host types included in the Sun Java System Web Server Plug-In.

Documentation, Support, and Training

Sun Function	URL	Description
Documentation	`http://www.sun.com/documentation/`	Download PDF and HTML documents, and order printed documents
Support and Training	`http://www.sun.com/supportraining/`	Obtain technical support, download patches, and learn about Sun courses

Typographic Conventions

The following table describes the typographic changes that are used in this book.

TABLE P–1 Typographic Conventions

Typeface or Symbol	Meaning	Example
`AaBbCc123`	The names of commands, files, and directories, and onscreen computer output	Edit your `.login` file. Use `ls -a` to list all files. `machine_name% you have mail.`
`AaBbCc123`	What you type, contrasted with onscreen computer output	`machine_name%` **`su`** `Password:`
aabbcc123	Placeholder: replace with a real name or value	The command to remove a file is `rm` *filename*.
AaBbCc123	Book titles, new terms, and terms to be emphasized	Read Chapter 6 in the *User's Guide*. Perform a *patch analysis*. Do *not* save the file. [Note that some emphasized items appear bold online.]

Shell Prompts in Command Examples

The following table shows the default system prompt and superuser prompt for the C shell, Bourne shell, and Korn shell.

TABLE P–2 Shell Prompts

Shell	Prompt
C shell prompt	`machine_name%`
C shell superuser prompt	`machine_name#`
Bourne shell and Korn shell prompt	`$`

TABLE P–2 Shell Prompts *(Continued)*

Shell	Prompt
Bourne shell and Korn shell superuser prompt	#

CHAPTER 1

Overview of Sun Java System Web Server Plug-In

This chapter describes general information about using the N1 Service Provisioning System to provision the Sun Java System Web Server 6.1 2005Q4 SP5. This chapter includes the following information:

- "Purpose of the Sun Java System Web Server Plug-In" on page 9
- "What the Sun Java System Web Server Plug-In Includes" on page 10
- "Requirements for Using the Sun Java System Web Server Plug-In" on page 10

Purpose of the Sun Java System Web Server Plug-In

The N1 Service Provisioning System software provides enhanced capabilities in out-of-the-box support for the Sun Java System Web Server 6.1 2005Q4 SP5. The Sun Java System Web Server 6.1 2005Q4 SP5 is a secure and highly available server that you can use to host web sites. The Sun Java System Web Server Plug-In provides plans and components that enable you to install and uninstall the basic installation infrastructure. The basic installation infrastructure includes an Administration Server and a Web Server instance. Also, the plug-in provides controls to start, stop, and restart instances of these servers.

What the Sun Java System Web Server Plug-In Includes

The Sun Java System Web Server Plug-In creates the `/com/sun/jes6_WS` directory.

For more information about the plans and components listed below, see Chapter 4.

InstallWebAdminServer	Plan to install an Administration Server and the first Web Server instance.
UninstallWebAdminServer	Plan to uninstall an Administration Server and all Web Server instances.
CreateWebServerInstance	Plan to create additional Web Server instances.
DeleteWebServerInstance	Plan to delete additional Web Server instances.
WebAdminServer	Container component that provides the controls for installing, uninstalling, starting, stopping, and restarting an Administration Server.
WebServerInstance	Container component that provides the controls for installing, uninstalling, starting, stopping, and restarting a Web Server instance.

Requirements for Using the Sun Java System Web Server Plug-In



Caution – The Sun Java System Web Server Plug-In 2.0 runs in the Sun N1 Service Provisioning System 5.1 environment. Do not install the Sun Java System Web Server Plug-In 2.0 on any other version of the N1 Service Provisioning System.

Any host on which you intend to deploy the Sun Java System Web Server 6.1 2005Q4 SP5 must meet the following requirements:

- Run the Solaris 8 OS, Solaris 9 OS, Solaris 10 OS, or Red Hat Linux Advanced Server 2.1.

Note – Solaris 8 on SPARC based servers only

- Contain the installation files for the Sun Java System Web Server 6.1 2005Q4 SP5.
- Meet the requirements for installing the Sun Java System Web Server 6.1 2005Q4 SP5. For more information, see *Sun Java Enterprise System 2005Q4 Installation Guide for UNIX*.
- Run the Remote Agent.

CHAPTER 2

Release Notes

This chapter contains details about issues that are known to be problems. This chapter includes the following sections:

- "Installation Issues" on page 13
- "Internationalization Issues" on page 14
- "Documentation Errata" on page 15

Installation Issues

This sections describes an installation issue.

Uninstallation of Administration Server on Linux Does Not Remove RPM Packages (6315590)

If you use the Sun Java System Web Server Plug-In to uninstall the Administration Server, several Red Hat Package Manager (RPM) packages are not uninstalled from Linux servers. If you attempt to reinstall the Administration Server, the remaining RPM packages cause the reinstallation to fail.

Workaround: If you are using the Sun Java System Web Server as part of the complete Java Enterprise System stack, refer to the Java Enterprise System documentation for instructions to remove the RPM packages and any remaining files.

If you are using the Sun Java System Web Server as a standalone product separate from the Java Enterprise System stack, you must manually remove the following items:

- Remove the following RPM packages:

```
sun-webserver-es-6.1.5-5
sun-webserver-fr-6.1.5-5
sun-entsys4-uninstall-l10n-4.0-14
sun-webserver-de-6.1.5-5
sun-webserver-zh_CN-6.1.5-5
sun-webserver-6.1.5-6
sun-webserver-ja-6.1.5-5
sun-webserver-zh_TW-6.1.5-5
sun-webserver-en-6.1.5-5
sun-wbsvr-entsys4-4.0-200508091754
sun-webserver-ko-6.1.5-5
```

- Remove the productRegistry file:

```
% rm -rf /var/opt/sun/install/productregistry
```

- Remove any remaining files from the directory in which you installed the Sun Java System Web Server. The default directory is `/opt/sun`.

```
% rm -rf /opt/sun/private

% rm -rf /opt/sun/webserver

% rm -rf /opt/sun/shared
```

Internationalization Issues

This section describes known issues when running the Sun Java System Web Server Plug-In in locales.

Administration Server Installation Fails in Some European Locales (6255175)

When you attempt to install the Administration Server in the French, German, and Spanish locales, an error message similar to the following appears:

```
Problems encountered during plan run or preflight

The plan (or preflight) "/com/sun/jes6_WS/InstallWebAdminServer" finished
with 1 failed host(s). (017034)

The execNative step failed because the exit status "0" of the command
did not match "75" for the command "sh". (017068)
```

Workaround: To successfully install the Administration Server using the provisioning system in European locales, on the server on which you want to install the Administration Server run the Remote Agent in the C locale.

Documentation Errata

This section describes inaccuracies in the ReadMe.txt file provided with the Sun Java System Web Server Plug-In.

Incorrect Version of Sun Java System Web Server Stated in ReadMe.txt File

From the Plug-In Details page, you can download the ReadMe.txt file for the Sun Java System Web Server Plug-In. The ReadMe.txt file incorrectly states that the Sun Java System Web Server Plug-In uses the Sun Java Enterprise System 2005Q1 version of the Sun Java System Web Server. The Sun Java System Web Server Plug-In uses the Sun Java Enterprise System 2005Q4 version.

The zip files associated with the Sun Java Enterprise System 2005Q4 version are as follows:

- `java_es_05Q4_webserver-solaris-sparc.zip`
- `java_es_05Q4_webserver-solaris-x86.zip`

After you unzip the binaries of the Sun Java Enterprise System 2005Q4 software, your directory structure will be as follows:

- `/java_es_05Q4_webserver/Solaris_sparc`
- `/java_es_05Q4_webserver/Solaris_x86`

CHAPTER 3

Installing and Configuring the Sun Java System Web Server Plug-In

This chapter explains how to install and configure the Sun Java System Web Server Plug-In. The chapter contains the following information:

- "Acquiring the Sun Java System Web Server Plug-In" on page 17
- "Adding the Sun Java System Web Server Plug-In to the N1 Service Provisioning System" on page 18

Acquiring the Sun Java System Web Server Plug-In

The Sun Java System Web Server Plug-In solution is packaged as a *plug-in* to the N1 Service Provisioning System software. Plug-ins are packaged in Java Archive (JAR) files. The plug-in files for the Sun Java System Web Server Plug-In solution are available from the Sun N1 Service Provisioning System 5.1 Supplement CD or from the Sun Download Center.

The Sun Java System Web Server Plug-In is available for import from two different JAR files. Choose the correct file depending upon your situation.

- If you are importing the Sun Java System Web Server Plug-In for the first time, acquire the `com.sun.jes6_WS_2.0.jar` file.
- If you have already imported the previous version of the Sun Java System Web Server Plug-In, acquire the `com.sun.jes6_WS_1.0_2.0.jar` file.

Adding the Sun Java System Web Server Plug-In to the N1 Service Provisioning System

To make a given plug-in known to the N1 Service Provisioning System product, you need to import the plug-in.

▼ How to Import the Sun Java System Web Server Plug-In Using the Browser Interface

To import or upgrade a plug-in, follow these steps as explained in detail in Chapter 5, "Plug-In Administration," in *Sun N1 Service Provisioning System 5.1 System Administration Guide*.



Caution – The Sun Java System Web Server Plug-In 2.0 runs in the Sun N1 Service Provisioning System 5.1 environment. Do not install the Sun Java System Web Server Plug-In 2.0 on any other version of the N1 Service Provisioning System.

Steps

1. **In the Administrative section of the browser interface main window, click Plug-ins.**
2. **In the Action column of the Plug-ins page, click Import.**
3. **Browse to the location where you downloaded the JAR file.**
   - If you are importing the Sun Java System Web Server Plug-In for the first time, select the `com.sun.jes6_WS_2.0.jar` file.
   - If you have already imported a previous version of the Sun Java System Web Server Plug-In, select the `com.sun.jes6_WS_1.0_2.0.jar` file.
4. **Click the Continue to Import button.**

   When the import completes successfully, a plug-in details page appears and shows you the objects that the plug-in provides.

▼ How to Import the Sun Java System Web Server Plug-In Using the CLI

You can also import a plug-in archive file by using the command line.

Step ● **To import a plug-in file from the CLI, type:**

```
% cr_cli -cmd plg.p.add -path plugin-filename -u username -p password
```

- If you are importing the Sun Java System Web Server Plug-In for the first time, *plugin-filename* is `com.sun.jes6_WS_2.0.jar`.
- If you have already imported the previous version of the Sun Java System Web Server Plug-In, *plugin-filename* is `com.sun.jes6_WS_1.0_2.0.jar`.

CHAPTER 4

Using the Sun Java System Web Server Plug-In

The Sun Java System Web Server Plug-In provides a number of specific components and plans that enable you to install and control Sun Java System Web Server 6.1 2005Q4 SP5 Administration Servers and Sun Java System Web Server 6.1 2005Q4 SP5 Web Server Instances. This chapter describes the following information:

- "Introduction to the Sun Java System Web Server 6.1 2005Q4 SP5" on page 21
- "Installing the Sun Java System Web Server 6.1 2005Q4 SP5" on page 22
- "Creating and Deleting Web Server Instances" on page 25
- "Controlling the Sun Java System Web Server 6.1 2005Q4 SP5" on page 27

Introduction to the Sun Java System Web Server 6.1 2005Q4 SP5

The Sun Java System Web Server 6.1 2005Q4 SP5 is a secure and highly available server that you can use to host web sites. When you install the Sun Java System Web Server 6.1 2005Q4 SP5 product, the following two server instances are installed:

- Administration Server
- Web Server instance

The Administration Server is a web-based server that contains the Java forms that you use to configure all of your Web Server instances. After you install the initial Web Server instance, you can use the Administration Server to install additional instances.

The Sun Java System Web Server Plug-In enables you to use the N1 Service Provisioning System to install and control Sun Java System Web Server 6.1 2005Q4 SP5 Administration Servers and Web Server instances. Using the provisioning system, you install an Administration Server and the first Web Server instance together. The provisioning system cannot install additional instances of the Web Server. You must

use the Administration Server to manually install additional instances. However, you can use the provisioning system to control all of your Web Server instances if you use the CreateWebServer plan to add those instances to the provisioning system database.

Installing the Sun Java System Web Server 6.1 2005Q4 SP5

When you use the provisioning system to install the Sun Java System Web Server 6.1 2005Q4 SP5, the provisioning system installs an Administration Server and the first Web Server instance. To install the Sun Java System Web Server 6.1 2005Q4 SP5 using the provisioning system, use the following steps:

1. Create the `JES_ADMIN_PASSWORD` and `WEB_ADMIN_PASSWORD` session variables.

   See "Creating Session Variables" on page 22.

2. Install the Administration Server and the first Web Server instance.

   See "How to Install an Administration Server and the First Web Server Instance" on page 23.

Creating Session Variables

The installation of the Sun Java System Web Server 6.1 2005Q4 SP5 requires that you create passwords to use to install the Sun Java System Web Server and to access the Administration Server. The provisioning system stores secure data, such as passwords, as session variables. When you save a password as a session variable, the password is stored in a way that prevents other users from accessing the password information. However, the password information is available for use by the provisioning system when you are logged in to that session.

You must create a Common Server Settings password for the Sun Java Enterprise System installation program. Create a session variable called `JES_ADMIN_PASSWORD`. The Sun Java Enterprise System installation program uses the password to install the Sun Java System Web Server components. For more information about this password, see information about `CMN_ADMIN_PASSWORD` in *Sun Java Enterprise System 2005Q4 Installation Guide for UNIX*.

You must create a password that you want to use to access the Administration Server. Create a session variable called `WEB_ADMIN_PASSWORD`. The value that you give this session variable is the password that you want to use to access the Administration Server. When the provisioning system is installing the Administration Server, the provisioning system sets the access password for the Administration Server to the value of this variable.

▼ How to Create Session Variables

Steps

1. **From any page in the N1 Service Provisioning System, click Session Variables.**
   You will find the Session Variables link in the top right corner of the page.
2. **In the Session Variable column, in the blank field, type `JES_ADMIN_PASSWORD`.**
3. **In the Password column, click the checkbox.**
4. **In the Value column, in the blank field, type the password you want to use to install the Sun Java System Web Server components.**
5. **Click the Create link.**
6. **In the N1 Grid SPS password field, type the password you use to access the N1 Service Provisioning System.**
7. **Click the Save button.**
   The provisioning system creates the session variable and returns you to the session variable list.
8. **In the Session Variable column, in the blank field, type `WEB_ADMIN_PASSWORD`.**
9. **In the Password column, click the checkbox.**
10. **In the Value column, in the blank field, type the password you want to use to access the Administration Server.**
11. **Click the Create link.**
12. **In the N1 Grid SPS password field, type the password you use to access the N1 Service Provisioning System.**
13. **Click the Save button.**

▼ How to Install an Administration Server and the First Web Server Instance

Before You Begin

Before you can deploy the Administration Server and a Web Server instance, you must have the Sun Java System Web Server 6.1 2005Q4 SP5 installation files saved on the target server. For more information, see *Sun Java Enterprise System 2005Q4 Installation Guide for UNIX*.

Be sure to create the `JES_ADMIN_PASSWORD` and `WEB_ADMIN_PASSWORD` session variables. For more information, see "How to Create Session Variables" on page 23.

Steps

1. **Click the Sun Java System WS 6 icon under the Common Tasks section of the left control panel.**

2. **Click the Install Web Admin Server: install link.**

3. **Click the Run button.**

4. **In the Plan Parameters table, in the Variable Settings column for the WebAdminServer component, click Select From List.**

   The Select a Variable Setting window opens.

5. **From the list of Variable Settings, change the following variables as described below.**

   a. **Set the `installPath` variable to the path on the target server where you want to install the state file that contains the name/value pairs needed to install the Administration Server.**

   b. **Set the `JES_Media_Directory` variable to the path to the Sun Java System Web Server 6.1 2005Q4 SP5 installation binary on the target server.**

   c. **(Optional) Set the `hostDomain` variable to the actual domain name of the target server.**

   d. **If you are installing the Administration Server on a Linux server, change the following variables:**

      - Set the `jesSystemGroup` variable to `root`.
      - Set the `webInstanceUser` variable to `nobody`.
      - Set the `webInstanceGroup` variable to `nobody`.

   e. **Click the Select button.**

   For information about other Variable Settings, see "WebAdminServer Component" on page 29.

6. **Select the target hosts.**

7. **Click the Run Plan (includes preflight) button.**

   The InstallWebAdminServer plan completes the following tasks:

   - Installs the Administration Server and one Web Server instance.
   - If you set the `webAutoStart` variable to `yes`, starts the Administration Server and the Web Server instance.
   - If you set the `webAutoStart` variable to `yes`, verifies that the Administration Server and the Web Server instance are running.

Creating and Deleting Web Server Instances

▼ How to Create Additional Web Server Instances

The Sun Java System Web Server Plug-In cannot create a new Web Server instance on a server. However, the plug-in enables you to control Web Server instances that you create manually. Consequently, whenever you manually create a Web Server instance, use the following procedure to update the N1 Service Provisioning System database to include the new Web Server instance.

Steps

1. **Access the Administration Server and create a new Web Server instance.**
   For more information, see *Sun Java Enterprise System 2005Q4 Installation Guide for UNIX*.
2. **In the browser interface of the provisioning system, click the Sun Java System WS 6 icon under the Common Tasks section of the left control panel.**
3. **Click the Create Web Server instance: create link.**
4. **Click the Run button.**
5. **In the Plan Parameters table, in the Variable Settings column for the WebServerInstance component, click Select From List.**
   The Select a Variable Setting window opens.
6. **From the list of Variable Settings, change the following variables as described below.**
   a. **Set the `hostName` variable to the value you provided in the Server Identifier field on the Web Server Administration Server page when you created the Web Server instance.**
   b. **Set the `domainName` variable to the value you provided as the domain name in the Server Identifier field on the Web Server Administration Server page. If you did not specify a domain name in the Server Identifier field, set the `domainName` value to `null`.**
   c. **Set the `webInstancePort` variable to the port number you want to use to access the Web Server instance.**
   d. **Click the Select button.**

   For information about other Variable Settings, see "WebServerInstance Component" on page 32.

7. **Select the target hosts.**

8. **Click the Run Plan (includes preflight) button.**

   The CreateWebServerInstance plan creates a virtual host for the Web Server instance of the `com.sun.jes6_WS#WebServerInstanceHT` host type.

▼ How to Delete a Web Server Instance

The Sun Java System Web Server Plug-In cannot delete a Web Server instance from a server. Consequently, you must manually delete a Web Server instance using the Administration Server. Then, use the following procedure to remove the Web Server instance from the N1 Service Provisioning System database.

Steps

1. **Access the Administration Server and delete the Web Server instance.**

2. **In the browser interface of the provisioning system, click the Sun Java System WS 6 icon under the Common Tasks section of the left control panel.**

3. **Click the Delete Web Server instance: delete link.**

4. **Click the Run button.**

5. **In the Plan Variables section, in the installPath field, type the value for the `installPath` variable for this Web Server instance.**

   The default value for the `installPath` is `/tmp/`*hostName*. *hostName* is the value that you entered for the `hostName` variable when you created this Web Server instance. To find the value of the `installPath`, complete the following steps:

   a. **In the left control panel, under the Hosts Setup section, click Hosts.**

   b. **In the list of hosts, click the virtual host on which you installed the Administration Server that controls the Web Server instance that you want to uninstall.**

      The host type for an Administration Server virtual host is `com.sun.jes6_WS#WebAdminServerHT`.

   c. **Click the Components Installed button.**

   d. **In the Components Installed on Host table, identify the `/com/sun/jes6_WS/WebServerInstance` component that you want to uninstall.**

      To help you identify the Web Server instances, you can review the variable settings that you selected when you installed the Web Server instance. In the Installed column, click on the date and time.

   e. **Find the value in the Install Path column for the `/com/sun/jes6_WS/WebServerInstance` component that you want to**

uninstall.



Caution – If you do not set the `installPath` variable, the provisioning system deletes the most recent Web Server instance that you created for the Administration Server that you selected.

6. **Click the Run Plan (includes preflight) button.**

   The provisioning system removes the virtual host for the Web Server instance.

Controlling the Sun Java System Web Server 6.1 2005Q4 SP5

The Sun Java System Web Server Plug-In enables you to start, stop, and restart Administration Servers and Web Server instances.

▼ How to Control Administration Servers and Web Server Instances

Steps

1. **In the left control panel, under the Application deployment section, click Components.**
2. **In the list of Components click the component for the server type you want to control.**
   - To control an Administration Server, click the WebAdminServer component.
   - To control a Web Server instance, click the WebServerInstance component.
3. **Choose the Component Procedure you want to run and click the Run link.**

   For details about the component procedures, see "Components" on page 29.
4. **On the Run details page, select the hosts for which you want to run this procedure.**
5. **Click the Run Selected Installations button.**

CHAPTER 5

Component, Plan, and Host Type Reference Details

This chapter contains information about the variables and values available for use with the plans and components that are provided by the Sun Java System Web Server Plug-In. The chapter contains the following sections:

- "Components" on page 29
- "Plans" on page 33
- "Host Types" on page 34

Components

The Sun Java System Web Server Plug-In provides two components that allow you to control Administration Servers and Web Server instances.

WebAdminServer Component

The WebAdminServer component provides controls that enable you to stop, start, and restart Administration Servers. The component variables and component procedures available for use with the WebAdminServer component are described below. For instructions to control an Administration Server, see "Controlling the Sun Java System Web Server 6.1 2005Q4 SP5" on page 27.

Component Variables

`installPath`	Path on the target host to install the state file that contains the name/value pairs for the installation of the Administration Server.

`exitOnDependency`	The value of this variable determines whether the installation will exit if a dependency fails. The default value is `no`.
`logCurrentlyInstalled`	The value of this variable determines whether the provisioning system creates a log of Sun Java System Web Server 6.1 2005Q4 SP5 items that are already installed on the target host. Valid values are `yes` and `no`.
`removeBundledProducts`	The value of this variable populates the `REMOVE_BUNDLED_PRODUCTS` variable in the state file that the provisioning system uses to install the Administration Server. The default value for this variable is blank.
`upgradeincompatibleJDK`	The value of this variable determines whether the provisioning system will upgrade the JDK™ software if the version installed on the target host is incompatible with the Sun Java System Web Server 6.1 2005Q4 SP5. Valid values are `yes` and `no`.
`jesInstallPath`	The path in which to install the Administration Server on the target host.
`hostName`	Host name of the target system.
`hostDomain`	Domain name of the target system.
`ipAddress`	IP address of the target system.
`jesAdminUser`	User ID for all components of the Sun Java Enterprise System. For more information, see information about `CMN_ADMIN_USER` in *Sun Java Enterprise System 2005Q4 Installation Guide for UNIX*.
`jesSystemUser`	User ID under which component processes run.
`jesSystemGroup`	Group of the `jesSystemUser`. If you are installing the Administration Server on a Linux server, set the `jesSystemGroup` variable to `root`.
`webAdminUser`	User ID to use to log into the Adminstration Server.
`adminPort`	Port to use to access the Administration Server.
`webAdminSystemUser`	User ID under which the Administration Server processes run.
`webInstanceUser`	User ID that the default instance of Web Server uses to run on the system.

	If you are installing the Administration Server on a Linux server, set the `webInstanceUser` variable to `nobody`.
`webInstanceGroup`	Group ID in which the default instance of Web Server runs. If you are installing the Administration Server on a Linux server, set the `webInstanceGroup` variable to `nobody`.
`webInstancePort`	Port to use to access the Web Server instance.
`docRoot`	Path for the Web Server to store content documents.
`webAutoStart`	The value of this variable determines whether the provisioning server will create a boot script that will start the Administration Server and the Web Server instance upon system boot. Valid values are `y` and `n`.
`startOnInstall`	The value of this variable determines whether the provisioning server will start the Administration Server and the Web Server instance when installation is complete. Valid values are `y` and `n`.
`JES_Media_Directory`	Path to the Sun Java System Web Server 6.1 2005Q4 SP5 installation binary on the target server.

Component Procedures

`markOnly:install`	Use this procedure to update the N1 Service Provisioning System database to include any Administration Servers that you installed manually.
`markOnly:uninstall`	Use this procedure to update the N1 Service Provisioning System database to remove any Administration Servers that you uninstalled manually.
`StartWebAdminServer`	Use this procedure to start an Administration Server.
`RestartWebAdminServer`	Use this procedure to stop and then restart an Administration Server.
`StopWebAdminServer`	Use this procedure to stop an Administration Server.

WebServerInstance Component

The WebServerInstance component provides controls that enable you to stop, start, and restart Web Server instances. The component variables and component procedures available for use with the WebServerInstance component are described below. For instructions explaining how to control a Web Server instance, see "Controlling the Sun Java System Web Server 6.1 2005Q4 SP5" on page 27.

Component Variables

`jesInstallPath`	Path where the Web Server instance is installed on the target host.
`hostName`	The value you provided in the Server Identifier field on the Web Server Administration Server page when you created the Web Server instance.
`hostDomain`	Domain name of the system on which the Web Server instance is installed. If you did not specify a domain name in the Server Identifier field when you created the Web Server instance on the Administration Server, set the `hostDomain` value to `null`.
`webInstancePort`	Port to use to access the Web Server instance.
`docRoot`	Path for the Web Server to store content documents.
`webAutoStart`	The value of this variable determines whether the provisioning server will create a boot script that will start the Web Server instance upon system boot. Valid values are `y` and `n`.
`startOnInstall`	The value of this variable determines whether the provisioning server will start the Web Server instance when installation is complete. Valid values are `y` and `n`.
`installPath`	The provisioning system uses the `installPath` variable to identify the various Web Server instances. The default value of this variable is `/tmp/`*hostName*. *hostName* is the value that you entered for the `hostName` variable. When you want to delete a Web Server instance, you must input the value of the `installPath` variable on the Plan run page in the installPath field.

Component Procedures

StartWebServer	Use this procedure to start a Web Server instance.

RestartWebServer	Use this procedure to stop and then restart a Web Server instance.
StopWebServer	Use this procedure to stop a Web Server instance.

Plans

The Sun Java System Web Server Plug-In includes several plans for you to use to install and uninstall the Web Server product.

InstallWebAdminServer Plan

The InstallWebAdminServer plan installs the Administration Server and the first Web Server instance. For instructions explaining how to use the InstallWebAdminServer plan, see "Installing the Sun Java System Web Server 6.1 2005Q4 SP5" on page 22.

UninstallWebAdminServer Plan

The UninstallWebAdminServer plan uninstalls the Administration Server and all related Web Server instances. Before running the UninstallWebAdminServer plan, you must manually uninstall all applications that are running on all of the Web Server instances.

CreateWebServerInstance Plan

When you use the provisioning system to install the Administration Server, the provisioning system also installs the first Web Server instance. You cannot install any additional Web Server instances using the provisioning system. However, after you have used the Administration Server to manually create an additional Web Server instance, the CreateWebServerInstance plan enables you to update the N1 Service Provisioning System database to include the new Web Server instance. This plan creates a new virtual host in the N1 Service Provisioning System database to account for the new Web Server instance. You can control Web Server instances through the provisioning system by using the component procedures of the WebServerInstance component.

For instructions explaining how to use the CreateWebServerInstance plan, see "How to Create Additional Web Server Instances" on page 25.

DeleteWebServerInstance Plan

After you have used the Administration Server to manually delete a Web Server instance, the DeleteWebServerInstance plan enables you to update the N1 Service Provisioning System database to remove the Web Server instance. This plan removes the virtual host that represented the deleted Web Server instance.

For instructions for using the DeleteWebServerInstance plan, see "How to Delete a Web Server Instance" on page 26.

Host Types

When the provisioning system installs an Administration Server or a Web Server instance, the provisioning system creates a virtual host for the installed server. The provisioning system assigns one of the following host types to the newly created virtual host:

- `com.sun.jes6_WS#WebAdminServerHT` – The provisioning system assigns this host type to the virtual host for an Administration Server.
- `com.sun.jes6_WS#WebServerInstanceHT` – The provisioning system assigns this host type to the virtual host for a Web Server instance.

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