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WDR Installation Guide

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Contents

Installing WDR

This WDR Installation Guide is organized into the following sections:

- The first section describes installation issues that pertain to all the Sun Fire systems on which WDR runs: Sun Fire 15K/12K, 6800, 4810, 4800, and 3800.
- The second section displays the commands that you enter, and the messages that the system displays, during the installation process on a Sun Fire 15K/12K system.
- The third section displays the commands and output during installation of WDR on a Sun Fire 6800, 4810, 4800, or 3800 system.

Requirements for Running WDR on Sun Fire 15K, 12K, 6800, 4810, 4800, and 3800 Systems

Install the Correct Version of the Solaris Operating System

WDR runs only on Sun Fire 15K, 12K, 6800, 4810, 4800, and 3800 systems that are running either the Solaris 8 2/02 operating environment or the Solaris 9 operating environment.

Where To Install Solaris Software

- On a Sun Fire 15K/12K system make sure either the Solaris 8 2/02 operating environment or the Solaris 9 operating environment is correctly installed on each System Controller (SC) and on each domain.
- On a Sun Fire 6800, 4810, 4800, or 3800 system, make sure either the Solaris 8 2/02 operating environment or the Solaris 9 operating environment is correctly installed on an external host called the *Midframe Service Processor* (MSP) and on each domain.

Note – The hardware and software requirements for the MSP are described in "Midframe Service Processor (MSP) Prerequisites" on page 13.

Information About Installing Solaris Software

For complete information about installing Solaris software see the following documentation:

- The Solaris 8 2/02 Installation Roadmap (part number 816-2582-10)
- The Solaris 9 Installation Roadmap (part number 816 1662-10)

Installing WDR on a Sun Fire 15K/12K System

Patches Required to Run DR on a Sun Fire 15K/12K

If you are running the Solaris 8 2/02 operating emvironment on a Sun Fire 15K/12K system, you need to install additional patches to enable dynamic reconfiguration. These patches are available at `sunsolve.sun.com`. Complete instructions for installing the patches are available in the *Sun Fire 15K/12K Dynamic Reconfiguration Installation Guide and Release Notes, Solaris 8 2/02* (part number 816-5080-10).

If you are running the Solaris 9 operating environment on a Sun Fire 15K/12K system, you need to install additional patches to enable dynamic reconfiguration (DR). These patches, along with complete instructions for installing them on the Sun Fire 15K/12K system, are available at
`http://www.sun.com/servers/highend/sunfire15k/`

Make Sure CIMOM Is Running and Accepting Connections

On Both SCs Running the Solaris 8 2/02 Operating Environment

Log on to the SC as root and enter the following command:

```
# /etc/init.d/init.wbem status
```

If the message "SMC server version 2.0.0 running on port 898." is returned, then Solaris WBEM Services are running and accepting connections.

However, if the message "SMC server not running on port 898." is returned, check for smcboot processes by entering the following command:

```
# ps -ef| /usr/xpg4/bin/grep -e smcboot
```

If two smcboot processes are displayed, then Solaris WBEM Services are running and accepting connections. If no processes are displayed, then you must start Solaris WBEM Services.

On Both SCs Running the Solaris 9 Operating Environment

Log on to the SC as root and enter the following command:

```
# /etc/init.d/init.wbem status
```

If the message "Solaris Management Console server version 2.1.0 running on port 898." is returned, then Solaris WBEM Services are running and accepting connections.

However, if the message "Solaris Management Console server not running on port 898." is returned, then you must start Solaris WBEM Services.

To Start Solaris WBEM Services

Enter the following command as root:

```
# /etc/init.d/init.wbem start
```

Complete Sun Fire 15K/12K Installation Instructions

This section shows all the input that you enter on the command line as well as all the output that is displayed during a successful installation of WDR on both SCs of a Sun Fire 15K/12K system.

▼ Before installing WDR, uninstall any existing version of WDR

Note – Perform the steps in this section *only* if WDR has already been installed on your system. If you are installing WDR for the first time, proceed directly to the next section and install the WDR packages.

If You Installed WDR Using the Web Installer or the Solaris Supplement CD

1. Make sure CIMOM is running. See "Make Sure CIMOM Is Running and Accepting Connections" on page 3.

2. As root run the `wdrunconfig` script, which resides in the `/opt/SUNWWDR/bin` directory, to remove all WDR CIM classes:

```
# cd /opt/SUNWWDR/bin
# ./wdrunconfig
```

```
Do you want to delete the WBEM DR CIM classes now? [y,n] y
Please enter the root password:
deleting class ":Solaris_SystemBoardHasControllers"
deleting class ":Solaris_SystemBoardHasMemory"
deleting class ":Solaris_SystemBoardHasProcessors"
deleting class ":Solaris_DomainHasSlots"
deleting class ":Solaris_SlotHasSystemBoard"
deleting class ":Solaris_CHController"
deleting class ":Solaris_CHMemory"
deleting class ":Solaris_CHCPU"
deleting class ":Solaris_CHSystemBoard"
deleting class ":Solaris_WDRAttachmentPoint"
deleting class ":Solaris_XCDomain"
deleting class ":Solaris_WDRDomain"
deleting class ":Solaris_XCSlot"
deleting class ":Solaris_WDRSlot"
deleting class ":Solaris_XCComponentRemove"
```

```
deleting class ":Solaris_XCComponentInsert"
deleting class ":Solaris_XCBoardPowerOn"
deleting class ":Solaris_XCBoardPowerOff"
deleting class ":Solaris_XCDomainConfigChange"
deleting class ":Solaris_XCDomainUp"
deleting class ":Solaris_XCDomainDown"
deleting class ":Solaris_XCDomainStop"
deleting class ":Solaris_XCDomainStateChange"
deleting class ":Solaris_XCEnvironmentalIndication"
deleting class ":Solaris_XCSystemBoardConfigChange"
deleting class ":Solaris_XCDomainIndication"
deleting class ":Solaris_WDRIndication"
deleting instance ":Solaris_ProviderPath.pathurl=
"file:///usr/sadm/lib/wbem/wdr.jar""
WBEM DR CIM classes have been removed successfully.
```

3. Make sure the DISPLAY variable is set.

4. If you are running the Solaris 8 2/02 operating environment:

   a. Run the `prodreg` utility.

   b. Select "WBEM DR."

   c. Click "Uninstall."

   d. Click "Next."

   e. Choose "Full" (the default).

   f. Click "Next."

   g. Click "Uninstall Now."

5. If you are running the Solaris 9 operating environment:

   a. Enter `cd /var/sadm/prod`

   b. Enter `java uninstall_WBEM_DR_1_0`

6. Check whether the packages were removed successfully:

   ```
   # pkginfo | /usr/xpg4/bin/grep -e SUNWWDRr -e SUNWWDRcfg -e
   SUNWmcfg
   #
   ```

If You Installed WDR Using the `pkgadd(1M)` Command

1. Make sure CIMOM is running. See "Make Sure CIMOM Is Running and Accepting Connections" on page 3.

2. As root run the `wdrunconfig` script, which resides in the `/opt/SUNWWDR/bin` directory, to remove all WDR CIM classes:

```
# cd /opt/SUNWWDR/bin
# ./wdrunconfig

Do you want to delete the WBEM DR CIM classes now? [y,n] y
Please enter the root password:
deleting class ":Solaris_SystemBoardHasControllers"
deleting class ":Solaris_SystemBoardHasMemory"
deleting class ":Solaris_SystemBoardHasProcessors"
deleting class ":Solaris_DomainHasSlots"
deleting class ":Solaris_SlotHasSystemBoard"
deleting class ":Solaris_CHController"
deleting class ":Solaris_CHMemory"
deleting class ":Solaris_CHCPU"
deleting class ":Solaris_CHSystemBoard"
deleting class ":Solaris_WDRAttachmentPoint"
deleting class ":Solaris_XCDomain"
deleting class ":Solaris_WDRDomain"
deleting class ":Solaris_XCSlot"
deleting class ":Solaris_WDRSlot"
deleting class ":Solaris_XCComponentRemove"
deleting class ":Solaris_XCComponentInsert"
deleting class ":Solaris_XCBoardPowerOn"
deleting class ":Solaris_XCBoardPowerOff"
deleting class ":Solaris_XCDomainConfigChange"
deleting class ":Solaris_XCDomainUp"
deleting class ":Solaris_XCDomainDown"
deleting class ":Solaris_XCDomainStop"
deleting class ":Solaris_XCDomainStateChange"
deleting class ":Solaris_XCEnvironmentalIndication"
deleting class ":Solaris_XCSystemBoardConfigChange"
deleting class ":Solaris_XCDomainIndication"
deleting class ":Solaris_WDRIndication"
deleting instance ":Solaris_ProviderPath.pathurl=
"file:///usr/sadm/lib/wbem/wdr.jar""
WBEM DR CIM classes have been removed successfully.
```

3. Remove the `SUNWWDRcfg` package:

```
# pkgrm SUNWWDRcfg

The following package is currently installed:
SUNWWDRcfg  WBEM-Based Dynamic Reconfiguration Config Files
            (sparc) 1.0.0,REV=2002.05.24.16.34

Do you want to remove this package? [y,n,?,q] y
```

```
## Removing installed package instance <SUNWWDRcfg>

This package contains scripts which will be executed with
super-user permission during the process of removing this
package.

Do you want to continue with the removal of this package
[y,n,?,q] y
## Verifying package dependencies.
## Processing package information.
## Removing pathnames in class <none>
/opt/SUNWWDR/bin/wdrunconfig
/opt/SUNWWDR/bin/wdrconfig
/opt/SUNWWDR/bin/newwdrlog
/opt/SUNWWDR/bin
/opt/SUNWWDR
## Executing postremove script.
20 3 * * 6    /opt/SUNWWDR/bin/newwdrlog # SUNWWDRcfg
## Updating system information.


Removal of <SUNWWDRcfg> was successful.
```

4. **Remove the** SUNWWDRr **package:**

```
# pkgrm SUNWWDRr

The following package is currently installed:
   SUNWWDRr  WBEM Automatic Dynamic Reconfiguration
            (sparc) 1.0.0,REV=2002.05.24.16.34

Do you want to remove this package? y

## Removing installed package instance <SUNWWDRr>
## Verifying package dependencies.
## Processing package information.
## Removing pathnames in class <none>
/usr/sadm/mof/WDR_XC1.0.mof
/usr/sadm/mof/WDR_SG1.0.mof
/usr/sadm/mof/WDR_Core1.0.mof
/usr/sadm/mof <shared pathname not removed>
/usr/sadm/lib/wbem/wdr.jar
/usr/sadm/lib/wbem/libwdr_xc.so.1
/usr/sadm/lib/wbem/libwdr_sg.so.1
/usr/sadm/lib/wbem/libwdr.so.1
/usr/sadm/lib/wbem/libwdr.so
/usr/sadm/lib/wbem <shared pathname not removed>
/usr/sadm/lib <shared pathname not removed>
/usr/sadm <shared pathname not removed>
/usr/lib/locale/C/LC_MESSAGES/SUNW_WDR.mo
/usr/lib/locale/C/LC_MESSAGES/SUNW_MCFG.mo
```

```
/usr/lib/locale/C/LC_MESSAGES <shared pathname not removed>
/usr/lib/locale/C <shared pathname not removed>
/usr/lib/locale <shared pathname not removed>
/usr/lib <shared pathname not removed>
## Updating system information.

Removal of <SUNWWDRr> was successful.
```

5. Check whether the packages were removed successfully:

```
# pkginfo | /usr/xpg4/bin/grep -e SUNWWDRr -e SUNWWDRcfg
#
```

▼ To Install WDR Using the Web Installer

1. Download the file `wdr1.0.zip` to a new directory.

2. In the new directory enter `unzip wdr1.0.zip`.

3. Enter `./installer` and follow the prompts.

▼ To Install WDR from the Solaris Supplement CD

1. Insert the Solaris Supplement CD in a CDROM drive.

2. Enter `cd /cdrom/cdrom0/WBEM_DR_1.0`

3. Enter `./installer` and follow the prompts.

▼ To Install WDR Using the `pkgadd(1M)` command:

1. Go to the directory where the WDR packages reside, for example:
   ```
   # cd /tmp/packages/wdr1.0
   ```

2. Check that only the following three packages are available in the directory:
   ```
   # ls

   SUNWWDRcfg    SUNWWDRr    SUNWmcfg
   ```

3. Run the `pkgadd`(1M) command and follow the installation program prompts to add the `SUNWWDRr` and `SUNWWDRcfg` packages, in that order.

Note – The `SUNWmcfg` package is installed only on Sun Fire 6800, 4810, 4800, and 3800 systems.

```
# pkgadd -d .
The following packages are available:
```

```
1 SUNWWDRcfg WBEM-Based Dynamic Reconfiguration Config Files
            (sparc) 1.0.0,REV=2002.05.24.16.34

2 SUNWWDRr   WBEM Dynamic Reconfiguration
            (sparc) 1.0.0,REV=2002.05.24.16.34

3 SUNWmcfg   SunMC/WDR Management Workstation Shared Config
            File
            (sparc) 1.0.0,REV=2002.05.24.16.34
```

Select package(s) you wish to process (or 'all' to process all packages). (default: all) [?,??,q]: 2

Processing package instance <SUNWWDRr> from </ws/cadr1.0-gate/packages/sparc/wdr1.0_28>

```
WBEM Dynamic Reconfiguration
(sparc) 1.0.0,REV=2002.05.24.16.34
Copyright 2002 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.
## Executing checkinstall script.
Using </usr> as the package base directory.
## Processing package information.
## Processing system information.
   8 package pathnames are already properly installed.
## Verifying package dependencies.
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.
```

This package contains scripts which will be executed with super-user permission during the process of installing this package.

Do you want to continue with the installation of <SUNWWDRr> [y,n,?] y

Installing WBEM Dynamic Reconfiguration as <SUNWWDRr>

```
## Installing part 1 of 1.
/usr/lib/locale/C/LC_MESSAGES/SUNW_MCFG.mo
/usr/lib/locale/C/LC_MESSAGES/SUNW_WDR.mo
/usr/sadm/lib/wbem/libwdr_sg.so.1
/usr/sadm/lib/wbem/libwdr_xc.so.1
/usr/sadm/lib/wbem/wdr.jar
/usr/sadm/mof/WDR_Core1.0.mof
/usr/sadm/mof/WDR_SG1.0.mof
/usr/sadm/mof/WDR_XC1.0.mof
[ verifying class <none> ]
## Executing postinstall script.
```

```
Installation of <SUNWWDRr> was successful.

The following packages are available:

1 SUNWWDRcfg WBEM-Based Dynamic Reconfiguration Config Files
              (sparc) 1.0.0,REV=2002.05.24.16.34

2 SUNWWDRr WBEM Dynamic Reconfiguration
              (sparc) 1.0.0,REV=2002.05.24.16.34

3 SUNWmcfg SunMC/WDR Management Workstation Shared Config File
              (sparc) 1.0.0,REV=2002.05.24.16.34

Select package(s) you wish to process (or 'all' to process
all packages). (default: all) [?,??,q]: 1

Processing package instance <SUNWWDRcfg> from </ws/cadr1.0-
gate/packages/sparc/wdr1.0_28>

WBEM-Based Dynamic Reconfiguration Config Files
(sparc) 1.0.0,REV=2002.05.24.16.34
Copyright 2002 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.
Using </opt> as the package base directory.
## Processing package information.
## Processing system information.
## Verifying package dependencies.
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.

This package contains scripts which will be executed with
super-user permission during the process of installing this
package.

Do you want to continue with the installation of <SUNWWDRcfg>
[y,n,?] y

Installing WBEM-Based Dynamic Reconfiguration Config Files as
<SUNWWDRcfg>

## Installing part 1 of 1.
/opt/SUNWWDR/bin/newwdrlog
/opt/SUNWWDR/bin/wdrconfig
/opt/SUNWWDR/bin/wdrunconfig
[ verifying class <none> ]
## Executing postinstall script.

Installation of <SUNWWDRcfg> was successful.

The following packages are available:

1 SUNWWDRcfg WBEM-Based Dynamic Reconfiguration Config Files
              (sparc) 1.0.0,REV=2002.05.24.16.34
```

```
2 SUNWWDRr   WBEM Dynamic Reconfiguration
              (sparc) 1.0.0,REV=2002.05.24.16.34

3 SUNWmcfg   SunMC/WDR Management Workstation Shared Config File
              (sparc) 1.0.0,REV=2002.05.24.16.34
```

Select package(s) you wish to process (or 'all' to process all packages). (default: all) [?,??,q]: q

4. Check whether the WDR packages have been added successfully:

```
# pkginfo | /usr/xpg4/bin/grep -e SUNWWDRcfg -e SUNWWDRr
application SUNWWDRcfg WBEM-Based Dynamic Reconfiguration Config
Files
application SUNWWDRr  WBEM Dynamic Reconfiguration
```

▼ The final step is to compile the .mof files:

The WDR script that compiles the .mof files is called `wdrconfig`, and resides in the `/opt/SUNWWDR/bin` directory. Enter the following commands:

1. `# cd /opt/SUNWWDR/bin/`

2. `# ls`
   `newwdrlog   wdrconfig    wdrunconfig`

3. `# ./wdrconfig`

   Do you want to compile the MOF files now? [y,n] y
   Enter root password:

   Compiling Core MOF File

   Compilation succeeded.

   Compiling Sun Fire 15k MOF File

   Compilation succeeded.

The installation process is now complete.

Establishing User Groups on the Sun Fire 15K/12K System

On a Sun Fire 15K/12K system controller, you look in the `/etc/group` file for information about the group to which the user who is currently logged in is assigned. To change the group to which the user is assigned, you run the

`/opt/SUNWSMS/bin/smsconfig` script with appropriate arguments to modify the `/etc/group` file. For complete information about SMS security, administration models, and groups on Sun Fire 15K/12K systems, see the *System Management Services (SMS) 1.2 Administrator Guide* (part number 816-5259).

Groups determine the operations that a user can perform. The groups on the Sun Fire 15K/12K system are: platadmn, platoper, dmn*x*adm, and dmn*x*rcfg, where *x* is a domain identifier.

- A user who is a member of the platadmn group can assign, unassign, power-on, and power-off boards.
- A user who is a member of the platoper group has no special privileges.
- A user who is a member of the dmn*x*adm group can enumerate attachment points in domain x; enumerate all attachment points if the user is a member of the dmnxadm group in all domains in the system; and change an attachment point state, assign, unassign, power-on, and power-off a board that is in the access control list (ACL) of domain x.
- A user who is a member of the dmn*x*rcfg group can enumerate attachment points in domain x; enumerate all attachment points if the user is a member of the dmnxrcfg group in all domains in the system; and change an attachment point state, assign, unassign, power-on, and power-off a board that is in the ACL of domain x.

Installing WDR on a Sun Fire 6800, 4810, 4800, or 3800 System

Note – On the Sun Fire 6800, 4810, 4800, and 3800 systems, WDR cannot be installed on the SC; it is installed on the Midframe Service Processor (MSP).

Prerequisites

Before installing WDR on a Sun Fire 6800, 4810, 4800, or 3800 system, make sure that all the following requirements are met, on the MSP, on system domains, and on the SC.

Midframe Service Processor (MSP) Prerequisites

Software Requirements

Make sure that one of the following is installed:

- The Solaris 8 2/02 operating environment.
- The Solaris 9 operating environment.

Documentation for the Solaris operating environment is available for download at `docs.sun.com`.

Hardware Requirements

The minimum hardware requirements for an MSP are:

- sun4u architecture
- 8 GB available disk space
- 128 MB RAM
- CD-ROM drive
- SunSwift™ card or (preferably) a QuadFast Ethernet card

Sun Fire 6800/4810/4800/3800 System Prerequisites

Make sure that one of the following is installed on each domain:

- The Solaris 8 2/02 operating environment.
- The Solaris 9 operating environment.

Make sure that the following is installed on the SC:

- Version 5.13.0 of the system controller (SC) software

Domain Configuration Server (DCS)

Make sure that DCS is installed and running on Sun Fire 6800/4810/4800/3800 by following these steps:

1. Check whether the DCS packages were installed by entering the following command:

   ```
   # pkginfo | grep dcs
   ```

   The following messages indicate that the DCS packages are present:

   ```
   system SUNWdcsr Domain Configuration Server, (Root)
   ```

   ```
   system SUNWdcsu Domain Configuration Server
   ```

2. If the DCS packages are not installed, use the `pkgadd`(1M) command to add the `SUNWdcsr` and `SUNWdcsu` packages.

Make Sure CIMOM Is Running and Accepting Connections

On an MSP Running the Solaris 8 2/02 Operating Environment

Log on to the MSP as root and enter the following command:

```
# /etc/init.d/init.wbem status
```

If the message "SMC server version 2.0.0 running on port 898." is returned, then Solaris WBEM Services are running and accepting connections.

However, if the message "SMC server not running on port 898." is returned, check for smcboot processes by entering the following command:

```
# ps -ef| /usr/xpg4/bin/grep -e smcboot
```

If two smcboot processes are displayed, then Solaris WBEM Services are running and accepting connections. If no processes are displayed, then you must start Solaris WBEM Services.

On an MSP Running the Solaris 9 Operating Environment

Log on to the MSP as root and enter the following command:

```
# /etc/init.d/init.wbem status
```

If the message "Solaris Management Console server version 2.1.0 running on port 898." is returned, then Solaris WBEM Services are running and accepting connections.

However, if the message "Solaris Management Console server not running on port 898." is returned, then you must start Solaris WBEM Services.

To Start Solaris WBEM Services

Enter the following command as root:

```
# /etc/init.d/init.wbem start
```

Complete Sun Fire 6800, 4810, 4800, and 3800 Installation Instructions

This section shows all the input that you enter on the command line as well as all the output that is displayed during a successful installation of WDR on a Sun Fire 6800, 4810, 4800, or 3800 system.

▼ Before installing WDR, uninstall any existing version of WDR

Note – Perform the steps in this section *only* if WDR has already been installed on your system. If you are installing WDR for the first time, proceed directly to the next section and install the WDR packages.

If You Installed WDR Using the Web Installer or the Solaris Supplement CD

1. Make sure CIMOM is running. See "Make Sure CIMOM Is Running and Accepting Connections" on page 3.

2. As root run the wdrunconfig script, which resides in the /opt/SUNWWDR/bin directory, to remove all WDR CIM classes:

```
# cd /opt/SUNWWDR/bin
# ./wdrunconfig
```

```
Do you want to delete the WBEM DR CIM classes now? [y,n] y
Please enter the root password:
deleting class ":Solaris_SystemBoardHasControllers"
deleting class ":Solaris_SystemBoardHasMemory"
deleting class ":Solaris_SystemBoardHasProcessors"
deleting class ":Solaris_DomainHasSlots"
deleting class ":Solaris_SlotHasSystemBoard"
deleting class ":Solaris_CHController"
deleting class ":Solaris_CHMemory"
deleting class ":Solaris_CHCPU"
deleting class ":Solaris_CHSystemBoard"
deleting class ":Solaris_WDRAttachmentPoint"
deleting class ":Solaris_XCDomain"
deleting class ":Solaris_WDRDomain"
```

```
deleting class ":Solaris_XCSlot"
deleting class ":Solaris_WDRSlot"
deleting class ":Solaris_XCComponentRemove"
deleting class ":Solaris_XCComponentInsert"
deleting class ":Solaris_XCBoardPowerOn"
deleting class ":Solaris_XCBoardPowerOff"
deleting class ":Solaris_XCDomainConfigChange"
deleting class ":Solaris_XCDomainUp"
deleting class ":Solaris_XCDomainDown"
deleting class ":Solaris_XCDomainStop"
deleting class ":Solaris_XCDomainStateChange"
deleting class ":Solaris_XCEnvironmentalIndication"
deleting class ":Solaris_XCSystemBoardConfigChange"
deleting class ":Solaris_XCDomainIndication"
deleting class ":Solaris_WDRIndication"
deleting instance ":Solaris_ProviderPath.pathurl=
"file:///usr/sadm/lib/wbem/wdr.jar""
WBEM DR CIM classes have been removed successfully.
```

3. Make sure the DISPLAY variable is set.

4. If you are running the Solaris 8 2/02 operating environment:

   a. Run the `prodreg` utility.

   b. Select "WBEM DR."

   c. Click "Uninstall."

   d. Click "Next."

   e. Choose "Full" (the default).

   f. Click "Next."

   g. Click "Uninstall Now."

5. If you are running the Solaris 9 operating environment:

   a. Enter `cd /var/sadm/prod`

   b. Enter `java uninstall_WBEM_DR_1_0`

6. Check whether the packages were removed successfully:

   ```
   # pkginfo | /usr/xpg4/bin/grep -e SUNWWDRr -e SUNWWDRcfg -e
   SUNWmcfg

   #
   ```

If You Installed WDR Using the `pkgadd(1M)` Command

1. Make sure CIMOM is running. See "Make Sure CIMOM Is Running and Accepting Connections" on page 3.

2. As root run the `wdrunconfig` script, which resides in the `/opt/SUNWWDR/bin` directory, to remove all WDR CIM classes:

```
# cd /opt/SUNWWDR/bin
# ./wdrunconfig

Do you want to delete the WBEM DR CIM classes now? [y,n] y
Please enter the root password:
deleting class ":Solaris_SystemBoardHasControllers"
deleting class ":Solaris_SystemBoardHasMemory"
deleting class ":Solaris_SystemBoardHasProcessors"
deleting class ":Solaris_DomainHasSlots"
deleting class ":Solaris_SlotHasSystemBoard"
deleting class ":Solaris_CHController"
deleting class ":Solaris_CHMemory"
deleting class ":Solaris_CHCPU"
deleting class ":Solaris_CHSystemBoard"
deleting class ":Solaris_WDRAttachmentPoint"
deleting class ":Solaris_XCDomain"
deleting class ":Solaris_WDRDomain"
deleting class ":Solaris_XCSlot"
deleting class ":Solaris_WDRSlot"
deleting class ":Solaris_XCComponentRemove"
deleting class ":Solaris_XCComponentInsert"
deleting class ":Solaris_XCBoardPowerOn"
deleting class ":Solaris_XCBoardPowerOff"
deleting class ":Solaris_XCDomainConfigChange"
deleting class ":Solaris_XCDomainUp"
deleting class ":Solaris_XCDomainDown"
deleting class ":Solaris_XCDomainStop"
deleting class ":Solaris_XCDomainStateChange"
deleting class ":Solaris_XCEnvironmentalIndication"
deleting class ":Solaris_XCSystemBoardConfigChange"
deleting class ":Solaris_XCDomainIndication"
deleting class ":Solaris_WDRIndication"
deleting instance ":Solaris_ProviderPath.pathurl=
"file:///usr/sadm/lib/wbem/wdr.jar""
WBEM DR CIM classes have been removed successfully.
```

3. Remove the `SUNWWDRcfg` package:

```
# pkgrm SUNWWDRcfg
```

```
The following package is currently installed:
  SUNWWDRcfg  WBEM-Based Dynamic Reconfiguration Config Files
              (sparc) 1.0.0,REV=2002.05.24.16.34

Do you want to remove this package? [y,n,?,q] y

## Removing installed package instance <SUNWWDRcfg>

This package contains scripts which will be executed with
super-user permission during the process of removing this
package.

Do you want to continue with the removal of this package
[y,n,?,q] y
## Verifying package dependencies.
## Processing package information.
## Removing pathnames in class <none>
/opt/SUNWWDR/bin/wdrunconfig
/opt/SUNWWDR/bin/wdrconfig
/opt/SUNWWDR/bin/newwdrlog
/opt/SUNWWDR/bin
/opt/SUNWWDR
## Executing postremove script.
20 3 * * 6   /opt/SUNWWDR/bin/newwdrlog # SUNWWDRcfg
## Updating system information.

Removal of <SUNWWDRcfg> was successful.
```

4. **Remove the** `SUNWWDRr` **package:**

```
# pkgrm SUNWWDRr

The following package is currently installed:
   SUNWWDRr  WBEM Dynamic Reconfiguration
             (sparc) 1.0.0,REV=2002.05.24.16.34

Do you want to remove this package? [y,n,?,q] y

## Removing installed package instance <SUNWWDRr>
## Verifying package dependencies.
## Processing package information.
## Removing pathnames in class <none>
/usr/sadm/mof/WDR_XC1.0.mof
/usr/sadm/mof/WDR_SG1.0.mof
/usr/sadm/mof/WDR_Core1.0.mof
/usr/sadm/mof <shared pathname not removed>
/usr/sadm/lib/wbem/wdr.jar
/usr/sadm/lib/wbem/libwdr_xc.so.1
/usr/sadm/lib/wbem/libwdr_sg.so.1
/usr/sadm/lib/wbem/libwdr.so.1
/usr/sadm/lib/wbem/libwdr.so
/usr/sadm/lib/wbem <shared pathname not removed>
```

```
/usr/sadm/lib <shared pathname not removed>
/usr/sadm <shared pathname not removed>
/usr/lib/locale/C/LC_MESSAGES/SUNW_WDR.mo
/usr/lib/locale/C/LC_MESSAGES/SUNW_MCFG.mo
/usr/lib/locale/C/LC_MESSAGES <shared pathname not removed>
/usr/lib/locale/C <shared pathname not removed>
/usr/lib/locale <shared pathname not removed>
/usr/lib <shared pathname not removed>
## Updating system information.

Removal of <SUNWWDRr> was successful.
```

5. **Remove the** `SUNWmcfg` **package:**

```
# pkgrm SUNWmcfg

The following package is currently installed:
SUNWmcfg SunMC / WDR Management Workstation Shared
Configuration File
(sparc) 1.0.0,REV=2002.05.24.16.34

Do you want to remove this package? [y,n,?,q] y

## Removing installed package instance <SUNWmcfg>

This package contains scripts which will be executed with
super-user permission during the process of removing this
package.

Do you want to continue with the removal of this package
[y,n,?,q] y
## Verifying package dependencies.
## Processing package information.
## Executing preremove script.
## Removing pathnames in class <none>
/opt/SUNWmcfg/lib/libmcfg.so.1
/opt/SUNWmcfg/lib/libmcfg.so
/opt/SUNWmcfg/lib
/opt/SUNWmcfg/bin/setconfigfile
/opt/SUNWmcfg/bin/mcfgconfig
/opt/SUNWmcfg/bin
/opt/SUNWmcfg
## Updating system information.

Removal of <SUNWmcfg> was successful.
```

6. **Check whether the packages were removed successfully:**

```
# pkginfo | /usr/xpg4/bin/grep -e SUNWWDRr -e SUNWWDRcfg -e
SUNWmcfg

#
```

▼ To Install WDR Using the Web Installer

1. Download the file `wdr1.0.zip` to a new directory.

2. In the new directory enter `unzip wdr1.0.zip`.

3. Enter `./installer` and follow the prompts.

▼ To Install WDR from the Solaris Supplement CD

1. Insert the Solaris Supplement CD in a CDROM drive.

2. Enter `cd /cdrom/cdrom0/WBEM_DR_1.0`

3. Enter `./installer` and follow the prompts.

▼ To Install WDR Using the `pkgadd(1M)` command:

1. Go to the directory where the WDR packages reside, for example:
   ```
   # cd /tmp/packages/wdr1.0
   ```

2. Check that only the following three packages are available in the directory:
   ```
   # ls

   SUNWWDRcfg   SUNWWDRr    SUNWmcfg
   ```

3. Run the `pkgadd(1M)` command and follow the installation program prompts to add the `SUNWWDRr`, `SUNWWDRcfg` and `SUNWmcfg` packages, in that order:

   ```
   # pkgadd -d .

   The following packages are available:

   1 SUNWWDRcfg WBEM-Based Dynamic Reconfiguration Config Files
                   (sparc) 1.0.0,REV=2002.05.24.16.34

   2 SUNWWDRr   WBEM Dynamic Reconfiguration
                   (sparc) 1.0.0,REV=2002.05.24.16.34

   3 SUNWmcfg   SunMC/WDR Management Workstation Shared Config File
                (sparc) 1.0.0,REV=2002.05.24.16.34

   Select package(s) you wish to process (or 'all' to process
   all packages). (default: all) [?,??,q]: 2

   Processing package instance <SUNWWDRr> from </ws/cadr1.0-
   gate/packages/sparc/wdr1.0_28>

   WBEM Dynamic Reconfiguration
   (sparc) 1.0.0,REV=2002.05.24.16.34
   Copyright 2002 Sun Microsystems, Inc. All rights reserved.
   Use is subject to license terms.
   ## Executing checkinstall script.
   Using </usr> as the package base directory.
   ```

```
## Processing package information.
## Processing system information.
    8 package pathnames are already properly installed.
## Verifying package dependencies.
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.


This package contains scripts which will be executed with
super-user permission during the process of installing this
package.

Do you want to continue with the installation of <SUNWWDRr>
[y,n,?] y

Installing WBEM Dynamic Reconfiguration as <SUNWWDRr>

## Installing part 1 of 1.
/usr/lib/locale/C/LC_MESSAGES/SUNW_MCFG.mo
/usr/lib/locale/C/LC_MESSAGES/SUNW_WDR.mo
/usr/sadm/lib/wbem/libwdr_sg.so.1
/usr/sadm/lib/wbem/libwdr_xc.so.1
/usr/sadm/lib/wbem/wdr.jar
/usr/sadm/mof/WDR_Core1.0.mof
/usr/sadm/mof/WDR_SG1.0.mof
/usr/sadm/mof/WDR_XC1.0.mof
[ verifying class <none> ]
## Executing postinstall script.


Installation of <SUNWWDRr> was successful.

The following packages are available:

1 SUNWWDRcfg WBEM-Based Dynamic Reconfiguration Config Files
               (sparc) 1.0.0,REV=2002.05.24.16.34

2 SUNWWDRr WBEM Dynamic Reconfiguration
               (sparc) 1.0.0,REV=2002.05.24.16.34

3 SUNWmcfg SunMC/WDR Management Workstation Shared Config File
               (sparc) 1.0.0,REV=2002.05.24.16.34

Select package(s) you wish to process (or 'all' to process
all packages). (default: all) [?,??,q]: 1

Processing package instance <SUNWWDRcfg> from </ws/cadr1.0-
gate/packages/sparc/wdr1.0_28>

WBEM-Based Dynamic Reconfiguration Config Files
(sparc) 1.0.0,REV=2002.05.24.16.34
Copyright 2002 Sun Microsystems, Inc. All rights reserved.
```

```
Use is subject to license terms.
Using </opt> as the package base directory.
## Processing package information.
## Processing system information.
## Verifying package dependencies.
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.

This package contains scripts which will be executed with
super-user permission during the process of installing this
package.

Do you want to continue with the installation of <SUNWWDRcfg>
[y,n,?] y

Installing WBEM-Based Dynamic Reconfiguration Config Files as
<SUNWWDRcfg>

## Installing part 1 of 1.
/opt/SUNWWDR/bin/newwdrlog
/opt/SUNWWDR/bin/wdrconfig
/opt/SUNWWDR/bin/wdrunconfig
[ verifying class <none> ]
## Executing postinstall script.

Installation of <SUNWWDRcfg> was successful.

The following packages are available:

1 SUNWWDRcfg WBEM-Based Dynamic Reconfiguration Config Files
              (sparc) 1.0.0,REV=2002.05.24.16.34

2 SUNWWDRr WBEM Dynamic Reconfiguration
              (sparc) 1.0.0,REV=2002.05.24.16.34

3 SUNWmcfg SunMC/WDR Management Workstation Shared Config File
              (sparc) 1.0.0,REV=2002.05.24.16.34

Select package(s) you wish to process (or 'all' to process
all packages). (default: all) [?,??,q]: 3

Processing package instance <SUNWmcfg> from
</net/twinsun.west/export/workspace/d4/issakov/cadr1.0-
packages/wdr1.0_28>

SunMC / WDR Management Workstation Shared Configuration File
(sparc) 1.0.0,REV=2002.05.24.16.34
Copyright 2002 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.
Using </opt> as the package base directory.
## Processing package information.
## Processing system information.
```

```
## Verifying package dependencies.
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.

Installing SunMC / WDR Management Workstation Shared
Configuration File as <SUNWmcfg>

## Installing part 1 of 1.
/opt/SUNWmcfg/bin/mcfgconfig
/opt/SUNWmcfg/bin/setconfigfile
/opt/SUNWmcfg/lib/libmcfg.so <symbolic link>
/opt/SUNWmcfg/lib/libmcfg.so.1
[ verifying class <none> ]

Installation of <SUNWmcfg> was successful.

The following packages are available:

1 SUNWWDRcfg WBEM-Based Dynamic Reconfiguration Config Files
                (sparc) 1.0.0,REV=2002.05.24.16.34

2 SUNWWDRr   WBEM Dynamic Reconfiguration
                (sparc) 1.0.0,REV=2002.05.24.16.34

3 SUNWmcfg   SunMC/WDR Management Workstation Shared Config File
             (sparc) 1.0.0,REV=2002.05.24.16.34

Select package(s) you wish to process (or 'all' to process
all packages). (default: all) [?,??,q]: q
```

4. **Check whether the WDR packages have been added successfully:**

```
# pkginfo | /usr/xpg4/bin/grep -e SUNWWDRcfg -e SUNWWDRr -e
SUNWmcfg
application SUNWWDRcfg WBEM-Based Dynamic Reconfiguration Config
                       Files
application SUNWWDRr    WBEM Dynamic Reconfiguration
application SUNWmcfg SunMC / WDR Management Workstation Shared
                       Configuration File
```

▼ Configure WDR

Enter the following command:

```
# /opt/SUNWmcfg/bin/mcfgconfig

Do you want to configure the shared config file now? [yes]

Initiate Shared Configuration File
-----------------------------------
SC IP Address or Hostname: <my_SC_hostname>
platformRComm: P-public
```

```
platformWComm: P-private
domainA IP Address or Hostname: <my_domain_A__hostname>
domainB IP Address or Hostname:
domainC IP Address or Hostname: <my_domain_C__hostname>
domainD IP Address or Hostname:
#
```

Note – The `P-public` and `P-private` community strings shown above are default SNMP community strings. You should enter the community strings that were set on your SCs.

▼ The final step is to compile the .mof files:

The WDR script that compiles the .mof files is called `wdrconfig`, and resides in the `/opt/SUNWWDR/bin` directory. Enter the following commands:

1. `# cd /opt/SUNWWDR/bin/`

2. `# ls`
   `newwdrlog  wdrconfig wdrunconfig`

3. Run the `wdrconfig` script.

Note – If you are running the Sun MC Platform Agent on the MSP where WDR is installed, then the SC must be configured to send traps to two trap ports: one for the Sun MC Platform Agent (default port: 162); and the other for WDR (which is the port number that should be used to configure `SCTrapPort` below).

```
# ./wdrconfig

Initiate WDR Configuration File
-------------------------------
SCTrapPort[162]:
SCTrapPort value set to 162 in
/var/opt/SUNWWDR/cfg/serengeti-wdr-cfg.dat

Do you want to compile the MOF files now? [y,n] y
Enter root password:

Compiling Core MOF File
-------------------------------
Compilation succeeded.

Compiling Serengeti MOF File
-------------------------------
Compilation succeeded.
```

The installation process is now complete.

Configuring for Process Indications

To receive process indications on the Sun Fire 6800, 4810, 4800, or 3800 system, you need to configure the SC to send traps to both the WDR WBEM Provider and the Sun MC platform agent. If both are installed on the same host, then each must use a different port.

Perform the following tasks:

- Ensure that each domain is configured to deliver traps to the Midframe Service Processor (MSP). See the *Sun Fire 6800/4810/4800/3800 Systems Platform Administration Manual* (part number 805-7373) for instructions.
  - Use the `setupdomain`(1M) command to set up trap hosts and community strings on each domain.
  - Use the `setupplatform`(1M) command to set up trap hosts and community strings for the SC.
- To ensure that you are receiving traps, snoop the configured trap port for traps on the MSP, using the following command: `snoop port` *trap_port*
- Ensure that the client's subscription handler is an instance of the Solaris_RMIDelivery class, which is described in the *WDR Developer's Guide*.

Establishing User Groups on the Sun Fire 6800, 4810, 4800, or 3800 System

On a Sun Fire 6800/4810/4800/3800 system, you look in the `/etc/group` file for information about the group to which the user who is currently logged in is assigned. To change the group to which user is assigned, you modify the `/etc/group` file manually.

Groups determine the operations that a user can perform. Any user can enumerate domains and slots on a Sun Fire 6800/4810/4800/3800 system.

The groups on the Sun Fire 6800/4810/4800/3800 system are: spltadmn, spltop, sd$x$adm, sd$x$op, where x is a domain identifier.

- A user who is a member of the spltadmn group can assign and unassign boards.
- A user who is a member of the spltop group has no special privileges.
- A user who is a member of the sd$x$adm group can enumerate attachment points in domain x; enumerate all attachment points if the user is a member of the sd$x$adm group in all domains in the system; and change the attachment point state, assign, unassign, power-on, and power-off a board that is in the ACL of domain x.
- A user who is a member of the sd$x$op group can enumerate attachment points in domain x; and enumerate all attachment points if the user is a member of the sd$x$op group in all domains in the system.