

WWA Software

Installation Guide



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VWA Software Installation Manual
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Notes

This Installation Manual describes how to install the VWA software and enhancements.

Before you proceed, observe the following conventions that are used in this User's Guide.

- Procedures are numbered.
- **Note:** Precedes information that requires special attention.
- The carriage return or Enter key is referred to as the RETURN key. This key is marked as ↵ on your workstation keyboard.
- Menus, commands, and window options are shown in **bold**.
- Filenames are shown in *italics*.
- “Left mouse button” refers to the left button on the integrated trackball or an external mouse.
- “Select” means to press the left button on the trackball or mouse.
- “Double-click” means to press the left mouse button twice in succession.
- “Pointer” refers to the cursor that appears on the screen.

Supplemental Documentation

This Installation Manual is part of a set of documents provided by RDI for your convenience. Additional information can be found in the following supplemental documentation:

- “UltraBook User’s Guide”
- “UltraBook Hardware Reference Guide”
- “Software User’s Guide”
- “Solaris 2.x Software Installation Manual”
- “VWA Control Panel User’s Guide”
- “AutoNET Reference Guide”
- “JOIN Reference Guide”

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Installation Instructions

This chapter describes how to install the VWA 2.0 software and enhancements from the VWA 2.0 CD. Topics include:

- System requirements — see the next section.
- Installing the VWA software on Solaris 2.x systems — see page 2-2.
- Installing XpressFAX (RDIFax) — see page 2-9.

Note:

All systems that RDI ships with the operating system preloaded will also have VWA loaded. Reload VWA only if you reinstall the operating system.

System Requirements

Before you install the VWA 2.0 software, be sure you have the following minimum system requirements:

- A UltraBook workstation with Open-Windows/CDE and Solaris 2.x installed and at least 40 MB of available hard disk space
- A CD-ROM drive connected to your workstation before the system is booted, to ensure that the CD is auto-mounted properly.

Installing VWA 2.0 Software on Solaris 2.x Systems

The following sections describe how to install the VWA components on workstations that have Solaris 2.x.

Logging In and Mounting the VWA CD

The following procedure describes how to log in and mount the VWA CD.

The VWA CD can be mounted locally, using a CD-ROM drive directly connected to the workstation. Alternatively, the VWA CD can be mounted using a CD-ROM drive connected to a remote Solaris 2.x system on the network (refer to page 2-4).

Mounting the VWA CD Locally

To mount the VWA CD from a CD-ROM drive directly attached to the workstation:

1. Attach the CD-ROM drive to the appropriate connector on your workstation. However, do not insert the VWA CD into the CD-ROM drive yet.
2. If necessary, type **halt** and press the RETURN key to halt the system.
3. At the **OK** prompt, type the following line and press RETURN: **boot -r**
4. Log in to your workstation as “root”.
5. Access the CD-ROM tray either by pushing the CD’s disk-eject button or by typing **eject** and pressing RETURN.

6. Insert the VWA CD and return the tray to its original position. When the light on the CD stops flashing, it means the CD has been auto-mounted. You can now perform the installation from the Console, in a shelltool, or in a cmdtool window under OpenWindows/CDE.
7. The CD is auto-mounted, so you do not need to enter the mount command. The default mount point for these platforms is `/cdrom/vwa2_0`.

However, if you connected the CD-ROM drive after the system had been booted, you must reconfigure the system to recognize the CD-ROM drive, then mount the drive manually by typing the following lines and pressing RETURN after typing each one:

```
/usr/sbin/drvconfig
```

```
/usr/sbin/disks
```

```
/usr/sbin/mount -F hsfs -r /dev/dsk/c0t6d0s0 /mnt
```

If you encounter problems mounting the CD-ROM manually, perform steps 8 and 9. Otherwise, skip to step 10.

8. Type the following line and press RETURN:

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

You will receive a message that contains a Process ID (PID) number.

9. Type the following line and press RETURN:

```
kill -9 pid
```

In this line, *pid* is the PID number returned after performing step 8.

10. Proceed to “Starting the Installation Program” on page 2-5.

Mounting the VWA CD Over the Network

The following procedure describes how to mount the VWA CD using a CD-ROM drive attached to a remote Solaris 2.x system on the network.

1. Log in to the remote system as “root”.
2. Mount the drive manually by typing the following lines and pressing RETURN after typing each one:

```
/usr/sbin/drvconfig
```

```
/usr/sbin/disks
```

```
/usr/sbin/mount -F hsfs -r /dev/dsk/c0t6d0s0  
/mnt
```

Note:

In this procedure, it is assumed that the mount point of the VWA CD is `/cdrom/vwa2_0`. If you mount the VWA CD on a different mount point, replace all references to `/cdrom/vwa2_0` with the appropriate mount point.

3. Export the filesystem on which the VWA CD was mounted by typing the following line and pressing RETURN:

```
share -F nfs -o r -d"VWA2_0CD" /  
cdrom/vwa2_0
```

4. Use the **ps** command to start `nfsd` and `mountd`, then `grep` for `nfsd` and `mountd`:

```
ps -ef | egrep 'nfsd|mountd'
```

5. If *nsfd* and *mountd* are not running, execute the following programs:

```
/usr/lib/nfs/nfsd -a -16
```

```
/usr/lib/nfs/mountd
```

6. Log off the remote system and log in to the local workstation as “root”.
7. Mount the remote filesystem that contains the VWA images:

```
mount -F nfs remote_system_name:/  
cdrom/vwa2_0 /mnt
```

8. Proceed to “Starting the Installation Program,” next.

Starting the Installation Program

To start the installation program:

1. Execute the *pkgadd* command to start the installation program by typing the following line and pressing RETURN:

```
/usr/sbin/pkgadd -d /cdrom/vwa2_0/Solaris_2.5.1
```

OR

If you mounted the CD manually or remotely, type the following line and press RETURN:

```
/usr/sbin/pkgadd -d /mnt
```

Either step displays the following menu:

```
The following packages are available:
1  RDIflash      RDI Unix OBP Flash Update Utility
                   (sparc) 1.0
2  RDImonsw     RDI Display Resolution Control for ATI M64
                   Graphics Controller (Sun4u) 1.0
3  RDIOlvwm     RDI OLWVM for Solaris 2.4 & 2.5
                   (sparc) 4.2
4  RDIpcma      RDI CL-PD6832 PCMCIA Adapter Driver
                   (Sun4u) 1.0
5  RDIuts       RDI UltraSparc Utilities for Solaris 2.x
                   (sparc) 1.0
6  RDIvwa       RDI Virtual Workgroup Architecture 2.0
                   (sun4u) 2.0
7  RDIwlan      RDI WaveLAN Wireless Ethernet Driver
                   (sparc) 1.0 (Preliminary)
8  RDIxprfax    ExpressFAX Version 2.1
                   (sparc) 2.1
9  UMailer      Umailer Remote Mail Tool
                   (sparc) 1.0
```

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

2. If you have an UltraBook, type the following numbers to install the corresponding packages: **1,2,3,4,5,6,8**

Note: You can install these packages in any order. Packages 7 and 9 are optional. Please refer to the release notes for more information on these packages.

3. Press RETURN to install the selected packages.

If you used the *pkgadd* command to start the installation, you will be prompted with a number of generic questions that will allow you to fine-tune your installation. For example, you can specify directories instead of accepting the default selections, or cancel

the installation procedure.

Table 2-1 provides a guide to answering the pkgadd questions.

Table 2-1. Answering pkgadd Questions

When Asked...	Reply by...
Where to install the “package name” [/opt][?,q]	Pressing RETURN to use the default value, or specifying a directory pathname of your choice (for example: <i>/usr/local/VWA</i>)
##Verifying disk space requirements Do you want to continue with the installation of this package [y,n,?]y	Typing Y to continue and disregard the WARNING message. However, check the “avail” field on the output of the <i>df</i> command to make sure your / filesystem is not empty. (This message may mean there is no available disk space in the / filesystem.)
The following files are being installed with the setuid and/or setgid permissions: * /opt/Application/Filename <setuid root> * - overwriting a file which is also setuid/setgid. Do you want to install these as setuid/setgid files [y, n, ?, q]	Typing Y to continue.

Table 2-1. Answering pkgadd Questions

When Asked...	Reply by...
<p>This package contains scripts that will execute with super-user permission during the process of installing this package.</p> <p>Do you want to continue with the installation of this package [y,n,?]</p>	<p>Typing Y to continue.</p>

4. After installing all the VWA packages type **reboot** and press RETURN to reboot the workstation.

This completes the VWA 2.0 installation procedure. If you need help with installing XpressFAX (RDIFax), refer to page 2-9.

Note:

To use **olvwm**, after installing it, set the environment variable **OW_WINDOW_MANAGER**. For *cs*h users, for example, type the following line and press RETURN:

```
setenv OW_WINDOW_MANAGER /usr/openwin/bin/olvwm
```

For *sh* users, type the following lines in your *.profile* file:

```
OW_WINDOW_MANAGER=/usr/openwin/bin/olvwm  
export OW_WINDOW_MANAGER
```

Installing XpressFAX (RDIFax)

Installing XpressFAX (RDIFax) on Solaris 2.x workstations requires you to answer questions specific to the XpressFAX (RDIFax) package. Table 2-4 provides guidelines for completing the XpressFAX (RDIFax) installation.

Table 2-4. XpressFAX (RDIFax) Installation Guidelines

When You Receive This Prompt...	Reply with This Answer...
This package requires approximately 25MB of disk space. where to install the XpressFAX (RDIFax) Package [usr/xprfax] [?,q]	Press RETURN to use the default directory <i>/usr/xprfax</i> , or enter the pathname of the directory where you want XpressFAX (RDIFax) installed. If you enter a different path, be sure the directory is named <i>xprfax</i> .
Enter UID for xprfax user account: [104]	Press RETURN to use the default UID (104), or enter a UID number for the “xprfax” user.
Enter GID for xprfax user account: [80]	Press RETURN to use the default group ID (80), or enter a GID number for the “xprfax” user.

After XpressFAX (RDIFax) is installed, you need to complete the license activation procedure and configure the FAX/modem. This can be done under a GUI window, using the following procedure.

1. Log in as “root”.
2. Start OpenWindows/CDE if it’s not currently on the screen.

3. In the Console window, type the following line and press RETURN:

xhost +

4. Type the following line and press RETURN:

csb

5. Type the following line and press RETURN:

~xprfax/install/XpressFAX (RDIFax)_install

This procedure starts a GUI window so you can install the XpressFAX (RDIFax) license and configure the FAX/modem. Refer to “Installing a Modem for XpressFAX (RDIFax)”.

Installing a Modem for XpressFAX (RDIFax)

The following procedure describes how to configure a modem for use with XpressFAX (RDIFax).

1. If the **XpressFAX (RDIFax) Installer** window is not currently displayed:
 - Log in as “root”.
 - Type **/usr/openwin/bin/openwin** and press RETURN to access OpenWindows/CDE.
 - Open a cmdtool/shelltool window, type **csb**, and press RETURN.
 - Type **cd ~xprfax/install** and press RETURN.
 - Type **./XpressFAX (RDIFax)_install** and press RETURN.

- Type **Y** in response to the questions until the **XpressFAX (RDIFax) Installer** window appears.
- 2. Select the **Install Modems** button. The **Modem Information** window appears.
- 3. In the **Area Code** and **number** fields, enter the area code and telephone number you will be using to receive FAXes.

Note:

When you type your telephone number in the **Number** field, include your area code. You must complete the **Area Code** and **number** fields, even if you are not planning to receive any FAXes. In this case, you may enter any arbitrary area code and telephone number.

- 4. Complete the **Pre-Dial** and **Post-Dial** fields if needed, or leave them blank.
- 5. Type the name of the serial device connected to the modem and press RETURN.

Note:

Available serial device names include:

- Serial Port A: **/dev/cua/a**
 - Serial Port A: **/dev/cua/b**
 - PCMCIA slot 0: **/dev/cua/pc0**
 - PCMCIA slot 1: **/dev/cua/pc1**
- 6. Leave the default values for **Subdirectory** as **Any** and **Modem Name** as **modem1**.
 - 7. Select the **NEW** button to save the modem configuration.

8. Select the **OK** button to remove the **Modem Information** window.

This completes the modem installation process. If you do not have an XpressFAX (RDIFax) license, proceed to the next section.

Note: The XpressFAX (RDIFax) modem installation procedure changes the permission of the serial port for use solely by XpressFAX (RDIFax). This prevents other programs, such as *tip* and *cu*, from using this serial port. To share the serial port with other programs, log in as “root” and change the permission of the device file to allow read and write by all as shown below:

```
# chmod a+rw real device names.
```

Note: The device names shown in Installing a Modem for XpressFAX (RDIFax), Step 5, are only symbolic links to the real devices in the **/devices** directory. To learn the real device name for a device, use the **ls -l** command as follows:

```
# ls -l /dev/cua/pc1
lrwxrwxrwx 1 root root 37 Sep 10 18:18 /dev/cua/pc1 ->
    ../../devices/pcmcia/pcser@1:pcser,cu
# chmod a+w /devices/pcmcia/pcser@1:pcser,cu
```

Installing the XpressFAX (RDIFax) License

Before you can use XpressFAX (RDIFax), you must obtain an XpressFAX (RDIFax) license. You must contact RDI Computer Corporation to obtain an XpressFAX (RDIFax) license. Once you obtain the license, you can perform the following procedure to install it.

1. If the **XpressFAX (RDIFax) Installer** window is not currently displayed, use step 1 under “Installing a Modem for XpressFAX (RDIFax)”(page 2-10) to display it.
2. Select the **License XpressFAX (RDIFax)** button. The **License Information** window appears.
3. Make sure the Hostname and Host ID values are correct for the system on which you will be installing the license.
4. Complete the **Serial Number** field using the License form.
5. Type **1** in the **Floating Licenses** field.
6. Complete the **Authorization String** using the License Form.
7. Complete the **License String** using the License Form.
8. Select the **Save License** button.
9. Select the **OK** button to return to the **XpressFAX (RDIFax) Installer** window.
10. Select the **Done** button to exit the **Xpress-FAX (RDIFax) Installer** window.

The XpressFAX (RDIFax) server starts when you reboot your system. This completes the XpressFAX (RDIFax) licensing procedure.

Notes