TriTeal Enterprise Desktop (TED™) 4.0

Installation Guide

TriTeal™

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Preface

This manual discusses how to perform an initial installation of the TriTeal Enterprise Desktop (TED) by executing tasks such as:

- Loading software from a CD-ROM.
- Executing initial configuration scripts.
- Configuring TED to execute automatically on system boot.
- Customizing desktop elements if switching to TED from Motif, OpenLook, Indigo Magic or HP VUE.

Note – The *TriTeal Enterprise Desktop (TED)* is based on Common Desktop Environment (CDE) technology. This manual may refer to the desktop as TriTeal Enterprise Desktop, TED, or simply, the desktop.

Who Should Use This Book

The audience for this book is:

- System administrators. Most of the tasks in this book require root permission.

How This Book Is Organized

This manual includes the following chapters:

Chapter 1, “Installing Software,” covers how to perform an initial installation of TED software from a CD-ROM (tape installation instructions available upon request).

Chapter 2, “Installation,” covers the basic functionality of TEDInstall Graphical User Interface and TED installation from a Command-Line Interface.

Chapter 3, “Starting and Stopping TED,” covers how to manually start and stop TED, and how to configure TED to automatically start and stop.

Chapter 4, “Switching to TED,” covers how to modify your configuration scripts if you are moving to TED from another desktop environment.

Chapter 5, “Technical Support,” covers issues concerning how to receive Technical Support.

What Typographic Changes and Symbols Mean

The following table describes the type changes and symbols used in this book.

Table P-1 Typographic Conventions

Typeface or Symbol	Meaning	Example
`AaBbCc123`	The names of commands, files, and directories; on-screen computer output	Edit your `.login` file. Use `ls -a` to list all files.
AaBbCc123	Parameters or variables; replace with a real value	To delete a file, type `rm` *filename*.
AaBbCc123	Book titles, new words or terms, or words to be emphasized	Read Chapter 6 in *User's Guide*. These are called *class* options. You *must* be root to do this.

In addition, any of the above type changes may appear in bold for additional emphasis.

Installing Software 1

To install TED software, see:

Software Installation Components

The TED 4.0 CD-ROM contains the following components utilized to perform the software installation:

readme — An ascii file which contains installation and support information. It also contains a defect reporting form suitable for use with fax or email.

install — The installation script executed by the administrator performing the installation. It queries for the installation location and associated information.

deinstall — The script executed by the administrator performing the deinstall. It deletes all TED related directories, except the `/etc/dt`, which has all the TED customizations.

The TED 4.0 CD-ROM also contains components that are used by the `install` and `deinstall` scripts, along with two directories that contain the TED 4.0 documentation in postscript format and the TED 4.0 software packages.

tedinstall	Main program that is called by the `install` and `deinstall` scripts.
addpkg	Script that installs packages.
querypkg	Script that queries installed packages.
removepkg	Script that removes packages.
packages	A directory containing all the TED 4.0 software packages.
dtksh	Shell command language interpreter with access to many X, Xt, Xm and TED functions. It is used by the `tedinstall` program.
XKeysymDB	Vendor Specific Keysyms.
docs	A directory containing postscript versions of the TED 4.0 manual set. You may print and copy these documents in conjunction with the use of properly licensed versions of the TED 4.0 software.
docs/admin.ps	Postscript version of the “*Advanced User's and System Administrator's Guide*” manual.
docs/builder.ps	Postscript version of the “*Application Builder User's Guide*” manual.
docs/dtksh.ps	Postscript version of the “*Desktop Korn Shell User's Guide*” manual.
docs/enhance.ps	Postscript version of the “*TED Enhancements*” manual.
docs/fax.ps	Postscript version of the “*TEDfax User's Guide*” manual.
docs/helpprog.ps	Postscript version of the “*Help System Author's and Programmer's Guide*” manual.
docs/install.ps	Postscript version of the “*Installation Guide*” manual.
docs/internat.ps	Postscript version of the “*Internationalization Programmer's Guide*” manual.
docs/prog.ps	Postscript version of the “*Programmer's Guide*” manual.

docs/progover.ps	Postscript version of the "*Programmer's Overview*" manual.
docs/style.ps	Postscript version of the "*Style Guide and Certification Checklist*" manual.
docs/ttover.ps	Postscript version of the "*ToolTalk Messaging Overview*" manual.
docs/ttprog.ps	Postscript version of the "*ToolTalk Programmer's Guide*" manual.
docs/users.ps	Postscript version of the "*User's Guide*" manual.
docs/vision.ps	Postscript version of the "*TEDvision User's Guide*" manual.

System Requirements

TED requires the following system resources to correctly install and run:

- A minimum of 60 MB disk space is required. But the disk space requirements, vary for every platform and installation type.
- At least 16 megabytes of RAM, however, 32 megabytes is preferred.
- A CD-ROM drive. If you do not have a CD-ROM drive available then please contact your TED distributor or TriTeal directly (as described in chapter 4 of this document) to receive an alternate form of media.
- X11R5 or greater must be installed. Note that SunOS 4.1.3 X11R5 is supplied.
- TCP/IP and NFS must be fully configured.

TED is available on the following platforms:

- Sun Microsystems, SunOS 4.1.3 or later
- Sun Microsystems, Solaris 2.3 or later
- IBM RS6000, AIX 3.2.5 or later
- Hewlett Packard, HP-UX 9.03 or later (700 Series only)
- Silicon Graphics, IRIX 5.3
- Novell Inc., UnixWare 2.01 or later

Note – X_eoe packages are required for the Silicon Graphics platform.

Pre-Installation Issues

A number of issues should be resolved prior to the installation process. These include removing previous versions of the Common Desktop Environment or TriTeal Enterprise Desktop (TED) installed on your system and determining installation locations for the TED files.

Deleting an old version of the Common Desktop Environment

Caution – If you want to keep all previous customizations, save the `/etc/dt` directory and its contents. Otherwise, by executing the `deinstall` script, all previous customizations will be discarded.

Any pre-existing version of the Common Desktop Environment should be removed prior to installing TED. If available use the deinstallation script provided with the pre-existing product. If no deinstallation script was provided then perform the following actions:

- Delete the `/usr/dt` directory and all of its contents.
- Delete the `/var/dt` directory and all of its contents.
- If you want to keep all previous customizations, DO NOT delete the `/etc/dt` directory and its contents. Otherwise, by deleting the `/etc/dt` directory, all previous customizations will be discarded.
- Remove the `ttdbserverd`, `dtspc`, and `cmsd` entries from the `/etc/inetd.conf` system file.
- Remove the `ttdbserverd` and `cmsd` entries from the `/etc/rpc` system file.
- Remove the `dtspc` entry from the `/etc/services` system file.
- Advise all Common Desktop Environment users on the system to remove or rename their `$HOME/.dt` directory and their `$HOME/.dtprofile` configuration file. If users have customized their `$HOME/.dt/dtwmrc` file and want to keep it, they will need to cut and paste the appropriate pieces into the `dtwmrc` file provided with TED.

Note – It is strongly recommended that the previous Common Desktop Environment product be removed from all systems on your local network. That product may not correctly interface with TED.

Deleting an old version of the TriTeal Enterprise Desktop

Caution – If you want to keep all previous customizations, save the `/etc/dt` directory and its contents. Otherwise, by executing the `deinstall` script, all previous customizations will be discarded.

Any pre-existing version of the TriTeal Enterprise Desktop should be removed prior to installing TED. Use the deinstallation script `/usr/dt/deinstall/deinstall` that was provided with the previous TriTeal Enterprise Desktop. The deinstallation script will perform the following actions:

- It will delete the `/usr/dt` directory and all of its contents.
- It will delete the `/var/dt` directory and all of its contents.
- It will delete the `/etc/dt` directory. It will NOT keep any of your TED customizations in place.
- It will remove the `ttdbserverd`, `dtspc`, and `cmsd` entries from the `/etc/inetd.conf` system file.
- It will remove the `ttdbserverd` and `cmsd` entries from the `/etc/rpc` system file.
- It will remove the `dtspc` entry from the `/etc/services` system file.

Note – It is strongly recommended that the previous TriTeal Enterprise Desktop product be removed from all systems on your local network.

Determining installation locations for TED

The installation script will check your available disk space to ensure installation can occur successfully, however it is suggested that you consider installation location issues prior to starting the installation process. TED installs new files into three separate system directories. These directories and their contents are:

`/usr/dt` This directory contains the bulk of the TED software. The entire content of the `package` file is placed here. This directory is large in size, however it is static in size after TED is installed. The contents of this directory are not changed during the execution of TED.

`/etc/dt` This directory contains dynamic system configuration information for TED. It is very small at installation time and will only slightly increase in size over time, based upon system configuration changes which affect TED.

`/var/dt` This directory contains dynamic log and run-time information for TED and TED users. It is very small at installation but can increase in size over time. Each new TED user increases the size of this directory a small amount.

These three directories must exist for TED to execute correctly. It is acceptable to install these directories as symbolic links to other directories, the `install` script will prompt you for this information during its execution. You should determine where you would like to actually install these directories prior to executing the `install` script.

Network installation for TED

You can install TED on an NFS server from your local workstation. You have to verify that the NFS server has to export the partition you want to install into, with `setuid` privileges. The NFS client has also to mount the exported partition allowing `setuid` privileges.

Note – The `/usr/dt` directory will be installed in the NFS server, but the `/etc/dt` and `/var/dt` directories will be installed locally on the NFS client.

Installation Process

Insert the CD-ROM disk into the CD-ROM drive of your system and perform the following tasks, which describe how to load the TED software from CD-ROM:

Hewlett Packard, HP-UX 9.03 or later

1. Mount the cdrom with the following command:

   `/etc/mount` *cdrom_device* `/cdrom -r -t cdfs`

2. Change to the cdrom directory with the following command:

   `cd /cdrom`

3. Review the contents of the `readme` file for any updated information regarding initial installation and configuration by entering the following command:

   `more readme`

4. Begin the installation process by entering the following command:

   `./install`

   Continue on to *Chapter 2* for detailed installation information using either the TEDInstall Graphics User Interface, or the `install` installation script from the command line.

5. When the installation is complete you can unmount and remove the CD-ROM by entering the following command:

   `cd /`

   `/etc/umount /cdrom`

Continue on to *Chapter 3* for information on starting, stopping and configuring TED.

IBM RS6000, AIX 3.2.5 or later

1. Mount the cdrom with the following command:

   `/etc/mount -r -v cdrfs` *cdrom_device cdrom_directory*

2. Change to the cdrom directory with the following command:

   `cd` *cdrom_directory*

3. Review the contents of the `readme` file for any updated information regarding initial installation and configuration.

   `more readme`

4. Begin the installation process by entering the following command:

   `./install`

   Continue on to *Chapter 2* for detailed installation information using either the TEDInstall Graphics User Interface, or the `install` installation script from the command line.

5. When the installation is complete you can unmount and remove the CD-ROM by entering the following command:

   `cd /`

   `/etc/umount` *cdrom_directory*

Continue on to *Chapter 3* for information on starting, stopping and configuring TED.

Novell Inc., UnixWare 2.01 or later

Note – You must have root privileges to install TED on the UnixWare platform.

From the UnixWare Desktop

1. Mount the cdrom by selecting the CD-ROM icon from the Disks-etc folder.

2. Review the contents of the `readme` file for any updated information regarding initial installation and configuration by selecting the `readme` icon.

3. Begin the installation process by double-clicking the `install` icon.

   Continue on to *Chapter 2* for detailed installation information using either the TEDInstall Graphics User Interface, or the `install` installation script from the command line.

4. When the installation is complete you can unmount and remove the CD-ROM by entering the following command:

   `cd /`

   `/usr/sbin/umount` *cdrom_directory*

Continue on to *Chapter 3* for information on starting, stopping and configuring TED.

From the Command Line

1. Mount the cdrom by either selecting the CD-ROM icon from the Disks-etc folder or with the following command:

   `/usr/sbin/mount -F cdfs -r` *cdrom_device cdrom_directory*

2. Change to the cdrom directory with the following command:

   `cd` *cdrom_directory*

3. Review the contents of the `readme` file for any updated information regarding initial installation and configuration with the following command:

   `more readme`

4. Begin the installation process by entering the following command:

   `./install`

   Continue on to *Chapter 2* for detailed installation information using either the TEDInstall Graphics User Interface, or the `install` installation script from the command line.

5. When the installation is complete you can unmount and remove the CD-ROM by entering the following command:

   `cd /`

   `/usr/sbin/umount` *cdrom_directory*

Continue on to *Chapter 3* for information on starting, stopping and configuring TED.

Silicon Graphics, IRIX 5.3 or later

1. The CD-ROM device should have been mounted already by `mediad.`Use the `df` command to verify that the CD-ROM filesystem has been mounted.

2. Change to the cdrom directory with the following command:

   `cd /CDROM`

3. Review the contents of the `readme` file for any updated information regarding initial installation and configuration.

```
more readme
```

4. Begin the installation process by entering the following command:

   ```
   ./install
   ```

   Continue on to *Chapter 2* for detailed installation information using either the TEDInstall Graphics User Interface, or the `install` installation script from the command line.

5. When the installation is complete you can remove the CD-ROM by entering the following command:

   ```
   cd /
   /usr/sbin/eject
   ```

Continue on to *Chapter 3* for information on starting, stopping and configuring TED.

Sun Microsystems, Solaris 2.3 or later

1. Solaris 2.3 or later may mount automatically the CD-ROM to `/cdrom/unnamed_cdrom`, if the "Volume Manager" is set up and running on your system. If the "Volume Manager" is not running, mount the CD-ROM with the following commands:

   ```
   mkdir -p /cdrom/unnamed_cdrom
   /etc/mount -F hsfs -r cdrom_device cdrom_directory
   ```

   For example:
   ```
   /etc/mount -F hsfs -r /dev/sr0 /cdrom/unnamed_cdrom
   ```

2. Change to the cdrom directory with the following command:

   ```
   cd cdrom_directory
   ```

3. Review the contents of the `readme` file for any updated information regarding initial installation and configuration with the following command:

   ```
   more readme
   ```

4. Begin the installation process by entering the following command:

   ```
   ./install
   ```

Continue on to *Chapter 2* for detailed installation information using either the TEDInstall Graphics User Interface, or the `install` installation script from the command line.

5. When the installation is complete you can unmount and remove the CD-ROM by entering the following command:

   `cd /`

   `/etc/umount` *cdrom_directory*

Continue on to *Chapter 3* for information on starting, stopping and configuring TED.

Sun Microsystems, SunOS 4.1.3 or later

1. Mount the cdrom with the following command:

   `/usr/etc/mount -r -t hsfs` *cdrom_device cdrom_directory*

   `i.e. /usr/etc/mount -r -t hsfs /dev/sr0 /cdrom`

2. Change to the cdrom directory with the following command:

   `cd` *cdrom_directory*

3. Review the contents of the `readme` file for any updated information regarding initial installation and configuration.

   `more readme`

4. Begin the installation process by entering the following command:

   `./install`

   Continue on to *Chapter 2* for detailed installation information using either the TEDInstall Graphics User Interface, or the `install` installation script from the command line.

5. When the installation is complete you can unmount and remove the CD-ROM by entering the following command:

   `cd /`

   `/usr/etc/umount` *cdrom_directory*

Continue on to *Chapter 3* for information on starting, stopping and configuring TED.

Installation 2

This chapter describes the basic functionality of TEDInstall Graphical User Interface and TED installation from a Command-Line Interface:

Using the TEDInstall Graphical User Interface

Note – In order to use the TEDInstall GUI, X11R5 or later should be installed and running. TED includes the X11 Release 5 for platforms running SunOS 4.1.3 or later.

Caution – The TEDInstall GUI will not work with the SunOS 4.1.3 XNeWS server. The X server will crash in this case.

The TEDInstall GUI makes installation of the TriTeal Enterprise Desktop easy and convenient. The installation can be customized to install as many or as few of the TED packages as are available. For example, you can install either only the basic desktop to conserve space or the basic desktop along with the TED enhancement clients.

▼ *To Start the TEDInstall Graphical User Interface*

1. Log in as root.
2. After changing to the CD-ROM directory, (see *Chapter 1*) execute the following command:

```
./install
```

TEDInstall Main Window

The TEDInstall main window appears, as shown in Figure 2-1 below.

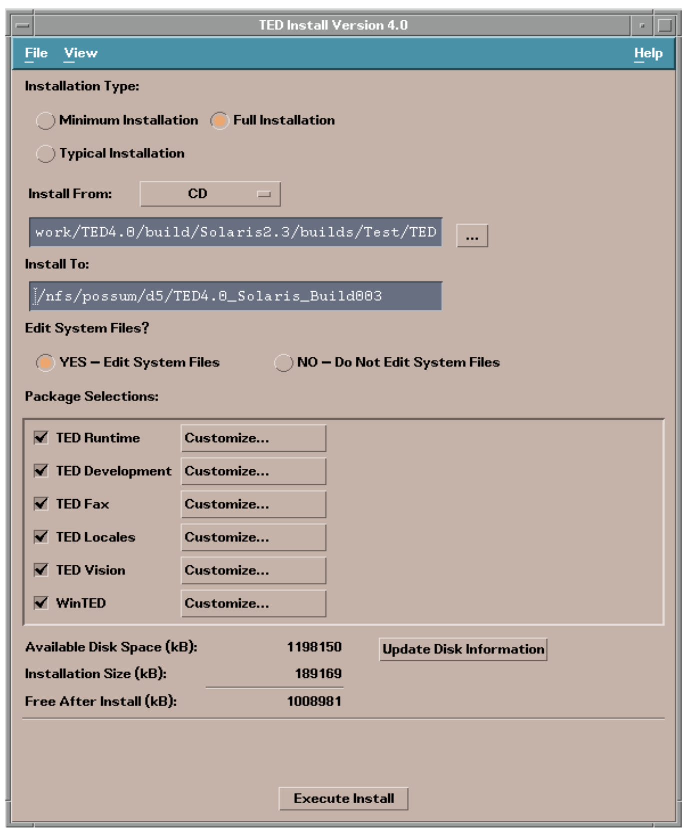

Figure 2-1 TEDInstall main window

By default the TEDInstall main window appears set for a full installation. This includes all the items listed in the "package selections" scroll area.

The main window has several basic components that must be configured before continuing on with the installation. A brief description of these components follows below.

TEDInstall Menus	It contains the TEDInstall File, View and Help menus.
Installation Type	Choices of Minimum, Full or Typical installation.
Installation From	TED can be install from CD, tape or file.
Installation To	Displays the location where TED will be installed.
Edit System Files	Grants/Denies permission to edit system files.
Package Selections	Displays package selection choices.
Size Information	Displays size information.

Note – Do not execute the installation procedure until you are sure that you have configured all of the above options correctly.

TEDInstall Menus

File Menu

The File menu provides the following choices:

Execute Install	Executes the Installation script.
Execute Post Install	Executes the Post Install script.
Exit	Exits the TEDInstall Graphic User Interface.

View Menu

The View menu provides the following choices:

View Packages Selected...	Displays the list of packages that already have been selected.

View Install Status...	Displays installation status messages.
View Post Install Advisory Messages...	Displays a list of messages that informs the user about issues that need to be dealt with after TEDInstall completes the installation.
View Packages Already Installed...	Displays the list of packages that already have been installed and which are of the same version as the packages on the current install media.

Help Menu

The Help menu provides TEDInstall information:

About...	Version information.

Installation Types

There are three available types of installations. They are minimum, full, and typical installation. Each type will include different packages selections. All of the installation types are outlined in the sections that follow.

Minimum Installation

To install just the basic TriTeal Enterprise Desktop, select the Minimum installation. Minimum installation automatically selects all “mandatory” package components for installation.

▼ To Select Minimum Installation

1. Choose “Minimum Installation” from the Installation type area. See Figure 2-2 below.

Figure 2-2 Selecting Minimum Installation

After selecting the minimum installation the package selections box should show only the TED Runtime package selected in the checkboxes which accompany the list. All other customize buttons should be grayed out.

The example of a default setting for the minimum installation package selections is shown below in Figure 2-3.

Figure 2-3 The default Minimum Installation Package Selections Menu

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Note – The package selection options may differ slightly depending on what the user is installing. The Minimum Installation Package Selections options could change from those shown above.

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2. If you wish to customize the minimum installation even further you may select the Customize button that is next to the TED Runtime package selection. The Customize TED Runtime screen is shown below in Figure 2-4.

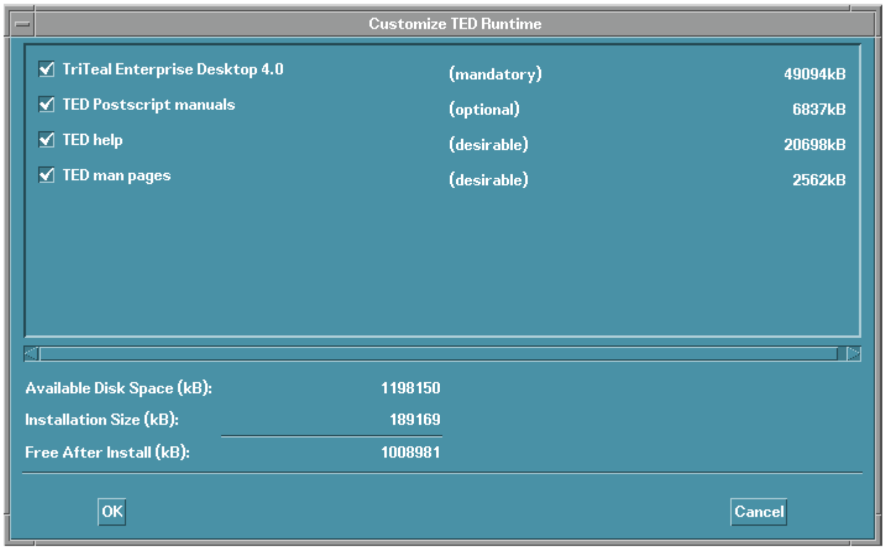

Figure 2-4 Customize TED Runtime Screen

The screen will automatically select the mandatory components selected as the default. You may not change these items. Any items listed as optional or desirable may be added or left out. The disk space which they will require is listed also.

3. Click the OK button.

4. Click the Execute Installation button in the Main Window.

Typical Installation

To install the basic TriTeal Enterprise Desktop, along with the TED Enhancements clients, select the Typical installation. Typical Installation automatically selects all "mandatory" and "desirable" package components for installation

▼ To Select Typical Installation

1. Choose “Typical Installation” from the Installation type area.

See Figure 2-5 below.

Figure 2-5 Selecting Typical Installation

After selecting the typical installation, the selections box show all but the TED Development and TED Locales packages selected in the checkboxes which accompany the list. The customize buttons are grayed out for TED Development and TED Locales.

The default setting for the typical installation package selections is shown below in Figure 2-6 below.

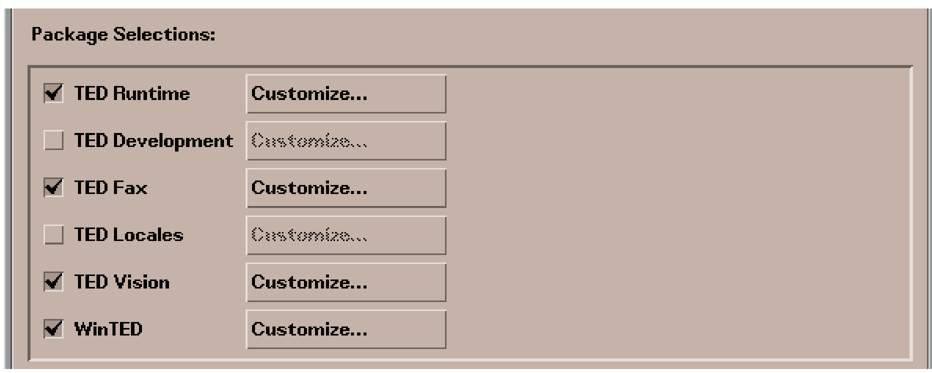

Figure 2-6 The Typical Installation Package Selections Default

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Note – The package selection options may differ slightly depending on what the user is installing. The Typical Installation Package Selections options could change from those shown above.

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2. If you wish to customize the typical installation even further you may select the Customize buttons that are next to the TED Runtime, TED Vision, TED Fax, and WinTED package selections. The buttons for TED Development and TED Locales will be grayed out.

   Each customizer screen that you bring up (see Figure 2-4) will automatically select the mandatory and desirable components as the default. You may not change these items. Any items listed as optional may be added or left out. The disk space which they will require is listed also.

3. Click the OK button in each customizer screen you bring up.
4. Click the Execute Installation button in the TEDInstall Main Window, after all your changes have been made.

Full Installation

Full installation automatically selects all package components for installation.

▼ *To Select Full Installation*

1. Choose "Full Installation" from the Installation type area.

See Figure 2-7 below.

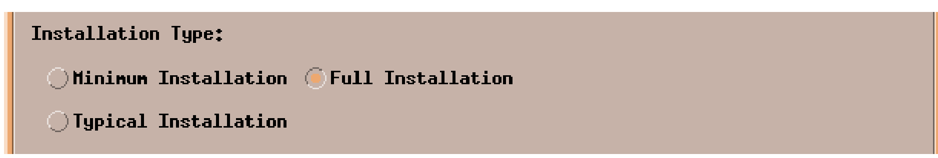

Figure 2-7 Selecting Full Installation

After selecting the full installation, the selections box show all packages selected in the checkboxes which accompany the list. All the customize buttons are available in the full installation.

The default setting for the full installation package selections is shown below in Figure 2-8.

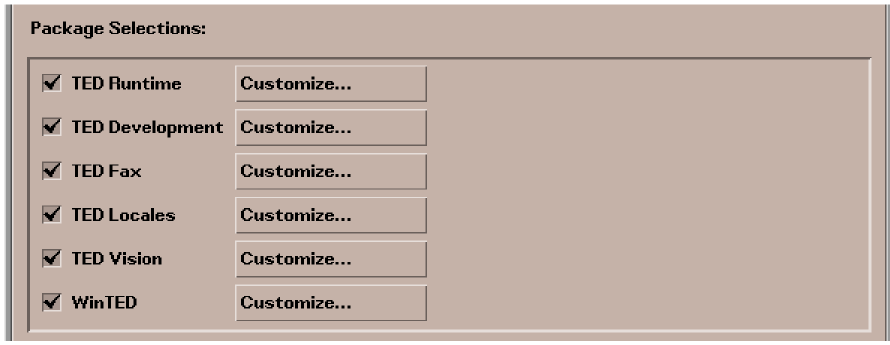

Figure 2-8 The Full Installation Package Selections Default

2. If you wish to customize the full installation even further you may select the Customize buttons that are next to the TED Runtime, TED Vision, TED Fax, WinTED, TED Development and TED Locales package selections. There are no package selections which are grayed out.

   Each customizer screen that you bring up (see Figure 2-4) will automatically select mandatory, desirable, and optional components as the default. The disk space which they will require is listed also.

3. Click the OK button in each customizer screen you bring up.

4. Click the Execute Installation button in the TEDInstall Main Window after all your changes have been made.

Installation From

Allows the user to specify the location of the packages to be installed. There are three options available to install TED to your system. You can install TED from a CD, a tape drive, or a file.

▼ *To Select Installation Method*

1. Place the pointer over the Install From menu button and press mouse button 1 to display the list of available choices.

2. Select the device you wish to use to install TED by pressing down the mouse button 1, or by using the arrow keys from the keyboard and pressing Enter.

   The Install From menu is show below in Figure 2-9.

Figure 2-9 Choosing An Installation Method

3. The installation method now appears in the Install From field.

▼ *To Select A File To Install From*

When you select file as the installation method you will be prompted by the Installation Source Directory window to select the appropriate file to install from. The Installation Source Directory window is shown below in Figure 2-10

Figure 2-10 Installation Source Directory Window

1. Navigate to the source file for your install.

2. Use filter to screen out unwanted files.
3. Select the file you wish to install from so that it appears in the Directory text field.
4. Select OK to close the Source Directory window.
5. The file name appears in the Install From field.

Installation To

Allows the user to specify the root directory for the installation. By default, this is `/usr/dt`. Note that if `/usr/dt` already exists and is a directory, then the installer will continue to install into `/usr/dt`. If `/usr/dt` exists and is a directory then it will be used as the installation directory. If `/usr/dt` is a symbolic link, then the directory it is linked to will be used.

▼ *To Select A File To Install To*

♦ Follow the exact same procedures outlined in the section above outlined in the "To Select A File To Install From" guidelines.

Edit System Files

TED Installation requires to edit the system files `/etc/inetd.conf`, `/etc/rpc` and `/etc/services`. You can select NO from the Edit System Files area, to avoid editing the above system files.

▼ *To optional Select the Edit System Files Option*

Selecting the YES option grants the installer permission to edit UNIX system files during the installation process if the user has permission. The installer will be denied permission to edit them, if the NO option has been selected:

1. Locate the Edit System Files toggle buttons underneath the Install To field.

The Edit System Files option is shown below in Figure 2-11.

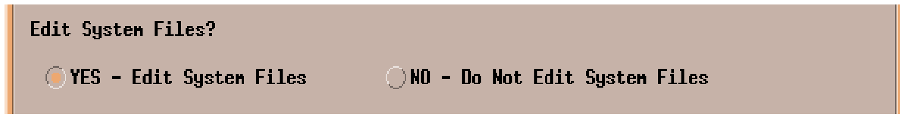

Figure 2-11 The Edit System Files Toggle Buttons

2. Select either the YES or NO options for the Edit System Files toggle buttons.

Package Cluster Selections

Depending up on the installation level you have selected earlier, there will be varying package clusters available. You can customize various packages within each package cluster. The available package clusters are displayed below in Figure 2-12.

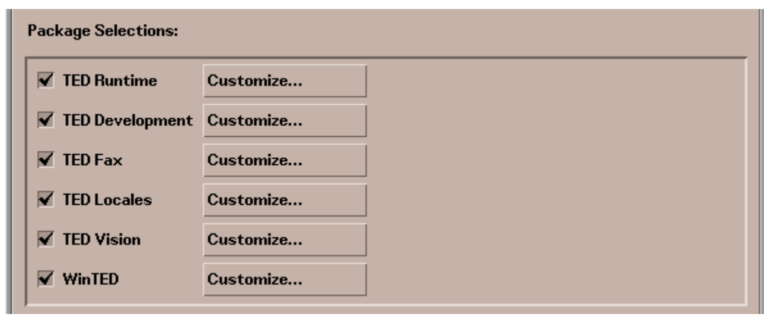

Figure 2-12 Available Package Cluster Selections

▼ *To Add or Remove Package Selections*

♦ Select the checkbox next to the package cluster(s) you wish to add or remove. A checkmark appears in the box to confirm it has been added. If the checkmark does not exist, the package will not be included in the final installation package.

Package Cluster Options Available in Install Types

TED Runtime	minimum	typical	full
TED Vision		typical	full
TED Fax		typical	full
WinTED		typical	full
TED Development			full
TED Locales			full

Table 2-1 displays the list of TED packages that are installed during different installations.

Table 2-1 Packages selected by default for each installation type.

Package Clusters	Packages	Installation Recommendation	Minimum Installation	Typical Installation	Full Installation
TED Runtime	TriTeal Enterprise Desktop 4.0	mandatory	YES	YES	YES
	TED help	desirable	NO	YES	YES
	TED man pages	desirable	NO	YES	YES
	TED Postscript manuals	optional	NO	NO	YES
TED Vision	TEDvision Web Browser	desirable	NO	YES	YES
TED Fax	TEDfax Application	desirable	NO	YES	YES

Table 2-1 Packages selected by default for each installation type.

Package Clusters	Packages	Installation Recommendation	Minimum Installation	Typical Installation	Full Installation
WinTED	WinTED	desirable	NO	NO	YES
TED Development	TED Application Builder	optional	NO	NO	YES
	TED Static Libraries	optional	NO	NO	YES
	TED Demos and Examples	optional	NO	NO	YES
	TED Help Development	optional	NO	NO	YES
	TED Developer's Include files	optional	NO	NO	YES
	TED Developer's Man Pages	optional	NO	NO	YES
TED Locales	TED French catalogs and misc.	optional	NO	NO	YES
	TED German catalogs and misc.	optional	NO	NO	YES
	TED Italian catalogs and misc.	optional	NO	NO	YES
	TED Japanese EUC catalogs and misc.	optional	NO	NO	YES
	TED Japanese Shift-JIS catalogs and misc.	optional	NO	NO	YES
	TED Korean catalogs and misc.	optional	NO	NO	YES
	TED Spanish catalogs and misc.	optional	NO	NO	YES
	TED Swedish catalogs and misc.	optional	NO	NO	YES
	TED Taiwanese catalogs and misc.	optional	NO	NO	YES

Size Information

After selecting all the options you want from the customize menus, in the TEDInstall Main Window you can see how much disk space will be required to install the TriTeal Enterprise Desktop with the options you selected.

Based on the size information of the selected packages and components, the installer will present the user with the projected free disk space (in kilobytes) after the installation is completed. This area is illustrated in Figure 2-13.

Note – If you do not have enough disk space, the number in the Free After Install field will be displayed in red.

If there is not enough space available, the user may choose to delete package options from the installer's package selections list using the previously described procedures. After removing options, the size information will be updated automatically.

If disk space is created by removing items outside TEDInstall, the user can update disk information to reflect current status simply by pressing the "Update Disk Information" button located next to the space totals. This will recalculate the available and free space values. See Figure 2-13 below.

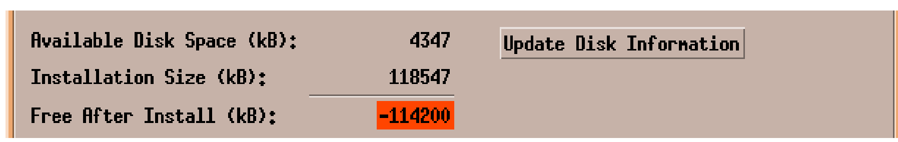

Figure 2-13 Disk Information Section

TED installation from the Command-Line Interface

TEDInstall offers the capability to install TED through a terminal emulator command-line interface.

The installation can be customized to install as many or as few of the TED packages as are available. For example, you can install either only the basic desktop to conserve space or the basic desktop along with the TED enhancement clients.

To install TED

1. Log in as root, in any no-windows environment.
2. After changing to the CD-ROM directory, (see *Chapter 1*), execute the following command:

```
./install [-h|-g|-a]
```

where:

`-h`	Prints the Usage message.
`-g`	Runs in GUI (Graphical User Interface) mode.
`-a`	Runs in ASCII (Command-Line Interface) mode.

To deinstall TED

To deinstall TED 4.0, after changing to the CD-ROM directory, (see *Chapter 1*), execute the following command:

```
./deinstall [-h|-g|-a]
```

where:

`-h`	Prints the Usage message.
`-g`	Runs in GUI (Graphical User Interface) mode.
`-a`	Runs in ASCII (Command-Line Interface) mode.

Note – For other deinstallation issues, please refer to *Chapter 1*.

Starting and Stopping TED 3

To configure TED to start and stop, see:

Initial Configuration Issues

Some configuration issues need to be addressed prior to starting TED for the first time. These issues are addressed below. In addition, it is advised that you read the relevant chapters (at a minimum 1, 2 and 3) in the *Advanced User's and System Administrator's Guide* to completely configure your TED environment. It is recommended that you start TED prior to performing any significant customization of the default configuration. If your system has any of the special configurations listed below, you may need to edit certain configuration files *before* starting TED for the first time.

If the system is an X terminal or a host for X terminals, TED must be running on the host and the X Display Manager Control Protocol (XDMCP) must be enabled for the X terminal. The XDMCP must be configured to direct the X terminal to contact the TED *Login Manager* on a host which is running TED.

If the system has more than one display, see *Configuring Multiple Displays* in the *Advanced User's and System Administrator's Guide*.

If the system console is a non-bitmap device (e.g. an ascii terminal), comment out the line that starts the X server in the `/etc/dt/config/Xservers` file. This will prevent TED from attempting to start an X server and login screen on the console:

Hewlett Packard, HP-UX 9.03 or later

On a Hewlett Packard system, running HP-UX 9.03 or later, comment the following line:

```
# * Local local@console /usr/bin/X11/X :0
```

IBM RS6000, AIX 3.2.5

On a IBM RS6000 system, running AIX 3.2.5, comment the following line:

```
# :0 Local local@console /usr/bin/X11/X -T -force :0
```

Novell Inc., UnixWare 2.01

On an Intel based system, running UnixWare 2.01, comment the following line:

```
# * Local local@console /usr/bin/X11/X :0
```

Silicon Graphics, IRIX 5.3

On a Silicon Graphics system, running IRIX 5.3, comment the following line:

```
# * Local local@console /usr/bin/X11/X -c :0
```

Sun Microsystems, Solaris 2.3 or later

On a Sun Microsystems system, running Solaris 2.3 or later, comment the following line:

```
# :0 Local local@console /usr/openwin/bin/Xsun :0
```

Sun Microsystems, SunOS 4.1.X

On a Sun Microsystems system, running SunOS 4.1.X, comment the following line:

```
# :0 Local local@console /usr/dt/X11R5/bin/X :0
```

Starting and Stopping TED Manually

TED can be started manually in one of two ways; either by starting the *Login Manager* or the *Session Manager*. If the Login Manager is started then it takes over control of the display and manages the login and logout activities of users. The Login Manager must be started by root. An individual user can start an X server and use the Session Manager to manually start TED for the duration of the X server.

Manually starting the Login Manager

To manually start the Login Manager perform the following tasks:

1. Log in as `root`.
2. Start the Login Manager with the following command:

   ```
   /usr/dt/bin/dtlogin -daemon
   ```

The Login Manager will now take over control of the console and will display a login screen through which a user can log into the system and start TED at the same time. When the user logs out, the login screen will reappear.

Manually stopping the Login Manager

When you stop the Login Manager, you automatically kill all of the X servers and the TED session that it started. To manually stop the Login Manager perform the following tasks:

1. In a terminal emulator window become `root`.
2. Obtain the process id of the Login Manager with the following command:

   ```
   cat /var/dt/Xpid
   ```

3. Kill the Login Manager with the following command:

   `kill -TERM` <*process_id*>

   where <*process_id*> is the value obtained from `Xpid`.

Manually starting the Session Manager

Manually starting the Session Manager allows you to use TED while other users serving from the same system, including the console, are not. To manually start the Session Manager perform the following tasks:

1. Log in to your user account (you do not need to be root).
2. Start an X server with a terminal emulator running, but *NO* window manager running. On the console this can be performed by creating a `.xinitrc` file with just the single entry `/usr/dt/bin/dtterm` (not running in background), and then executing the following command:

   ```
   xinit
   ```

Note – If you use this method, the *dtterm* is the controlling process for the X server. When the *dtterm* exits, the X server and TED will also exit.

3. Start the Session Manager with the following command:

   ```
   /usr/dt/bin/Xsession &
   ```

Manually stopping the Session Manager

Stopping a Session Manager which was started manually is done in two steps. First the Session Manager is stopped and then the X server and TED are stopped. To stop the Session Manager simply select the EXIT button from the front panel. To stop the X server and TED you can kill the controlling process for the X server (the *dtterm* in the example above).

Starting and Stopping TED Automatically

Hewlett Packard, HP-UX 9.03 or later

HP-UX systems can be configured to start TED automatically when the system is booted. This method starts the Login Manager automatically on all configured displays.

Note – All changes in the system files, have to be performed by root.

To start the desktop automatically, the file `/etc/inittab` has to be edited. The lines below show a number of entries in the `/etc/inittab` file, and their run level:

```
halt:6:wait:/usr/lib/X11/ignition/shutdown.ksh
cons:012456:respawn:/etc/getty -h console console #system console
vue :34:respawn:/etc/vuerc # VUE validation and invocation
```

Edit the `/etc/inittab` and check the line that sets the default run level. This line starts with `init`, and it would look like the line below:

```
init :5:initdefault
```

Add a line that will start the desktop at that run level:

```
dt :5:respawn:/usr/dt/bin/dtrc # TED validation and invocation
```

Using the command line to enable TED auto-start

1. Log in as `root`.
2. First, shut down your HP VUE environment with the following command:

   ```
   /etc/telinit <n>; exit
   ```

   where <n> is the number of the HP VUE run level.
3. You can switch back and forth between TED and HP VUE by executing the following command:

   ```
   /etc/telinit <n>; exit
   ```

   where <n>=3 is the number of the HP VUE run level and <n>=5 is the TED run level according to the example above.

IBM RS6000, AIX 3.2.5

AIX can be configured to start TED automatically when the system is booted. This method starts the Login Manager automatically on all configured displays. There are several ways to configure TED to auto-start.

Using the command line to enable TED auto-start

1. Log in as `root`.
2. Enter the following command:

```
/usr/dt/bin/dtconfig -e
```

3. Reboot the machine. If you do not wish to reboot then enter the following command:

```
startsrc -s dtsrc
```

Using the command line to disable TED auto-start

1. Log in as `root`.
2. Enter the following command:

```
/usr/dt/bin/dtconfig -d
```

3. Reboot the machine. If you do not wish to reboot then enter the following command:

```
stopsrc -c -s dtsrc
```

Using SMIT menus to enable TED auto-start

1. Log in as `root`.
2. Enter the following command:

```
/usr/bin/smit
```

3. Select the *System Environments* menu entry.
4. Select the *Change System User Interface* menu entry.
5. Select the *TriTeal Enterprise Desktop* menu entry.
6. Press *Enter* when using ASCII SMIT or select *Do* when using GUI SMIT interface.
7. Exit SMIT.
8. Reboot the machine.

Using SMIT menus to disable TED auto-start

1. Log in as `root`.
2. Enter the following command:

```
/usr/bin/smit
```

3. Select the *System Environments* menu entry.
4. Select the *Change System User Interface* menu entry.
5. Select the *Command-line* menu entry.
6. Press *Enter* when using ASCII SMIT or select *Do* when using GUI SMIT interface.
7. Exit SMIT.
8. Reboot the machine.

Using SMIT fastpath to enable TED auto-start

1. Log in as `root`.
2. Enter the following command:
   ```
   /usr/bin/smit dtconfig
   ```
3. Select the *TriTeal Enterprise Desktop* menu entry.
4. Press *Enter* when using ASCII SMIT or select *Do* when using GUI SMIT interface.
5. Exit SMIT.
6. Reboot the machine.

Using SMIT fastpath to disable TED auto-start

1. Log in as `root`.
2. Enter the following command:
   ```
   /usr/bin/smit dtconfig
   ```
3. Select the *Command-line* menu entry.
4. Press *Enter* when using ASCII SMIT or select *Do* when using GUI SMIT interface.
5. Exit SMIT.
6. Reboot the machine.

Novell Inc., UnixWare 2.01

UnixWare 2.01 can be configured to start TED automatically when the system is booted. This method starts the Login Manager automatically on all configured displays. There are several ways to configure TED to auto-start.

Using the command line to enable TED auto-start

1. Log in as `root`.
2. Disable the `xdm` with the following command:
   ```
   /usr/bin/disable_glogin
   ```
3. Enter the following command:
   ```
   /usr/dt/bin/dtconfig -e
   ```
4. Reboot the machine.

Using the command line to disable TED auto-start

1. Log in as `root`.
2. Enter the following command:
   ```
   /usr/dt/bin/dtconfig -d
   ```
3. Enable the `xdm` with the following command:
   ```
   /usr/bin/enable_glogin
   ```
4. Reboot the machine.

Silicon Graphics, IRIX 5.3

IRIX can be configured to start TED automatically when the system is booted. This method starts the Login Manager automatically on all configured displays. There are several ways to configure TED to auto-start.

Using the command line to enable TED auto-start

1. Log in as `root`.
2. Enter the following command:

```
/usr/dt/bin/dtconfig -e
```

3. In the `/etc/init.d/xdm` change the following line:

   ```
   if $IS_ON windowsystem && test -x $XSGI || $IS_ON xdm; then
   ```

   to

   ```
   if $IS_ON windowsystem && test -x $XSGI && $IS_ON xdm; then
   ```

   The symbol "`||`" was changed to "`&&`."

4. Execute the following:

   ```
   chkconfig xdm off
   ```

5. Reboot your system.

Using the command line to disable TED auto-start

1. Log in as `root`.
2. Enter the following command:

   ```
   /usr/dt/bin/dtconfig -d
   ```

   or

   ```
   chkconfig dtlogin off
   ```

Sun Microsystems, Solaris 2.3 or later

SunOS 5.3 and later (Solaris 2.3 and later) can be configured to start TED automatically when the system is booted. This method starts the Login Manager automatically on all configured displays. There are several ways to configure TED to auto-start.

Using the command line to enable TED auto-start

1. Log in as `root`.
2. Enter the following command:

   ```
   /usr/dt/bin/dtconfig -e
   ```

3. Reboot the machine.

Using the command line to disable TED auto-start

1. Log in as `root`.
2. Enter the following command:

   ```
   /usr/dt/bin/dtconfig -d
   ```

3. Reboot the machine.

Sun Microsystems, SunOS 4.1.X

Note – All changes in the system files, have to be performed by root.

SunOS 4.1.X can be configured to start TED automatically when the system is booted by adding an entry at the end of the `/etc/rc.local` file.

As an example, the following lines could be added:

```
if [ -x /usr/dt/bin/dtlogin ]; then
  /usr/dt/bin/dtlogin&
fi
```

Switching To TED 4

To Configure your TED environment for previous X users see:

Note – Note that when you exit from a TED session, the default behavior is to save the current user preferences and note the applications running so that they will be restarted upon your next login.

Guidelines for Users of Other Desktops

OpenWindows Desktop Users

If you have previously used the OpenWindows Desktop the following point will help ease your transition to using the TriTeal Enterprise Desktop (TED):

- Preferences that you previously set from the Workspace Properties can now be set from the TED Style Manager. This includes items such as Colors, Fonts, Mouse controls and so forth.

Indigo Magic Desktop Users

If you have previously used the Indigo Magic Desktop the following points will help ease your transition to using the TriTeal Enterprise Desktop (TED):

- Preferences that you previously set from the Toolchest Menu can now be set from the TED Style Manager. This includes items such as Colors, Fonts, Mouse controls and so forth.
- Many of the tools you previously accessed through the Toolchest Menu and the Icon Catalog can now be accessed from the TED Application Manager.

HP VUE Users

If you have previously used the HP VUE the following points will help ease your transition to using the TriTeal Enterprise Desktop (TED):

- Preferences that you previously set from the HP VUE Style Manager can now be set from the TED Style Manager. This includes items such as Colors, Fonts, Mouse controls and so forth.
- Many of the tools you previously accessed through the various desktops (such as the Applications Toolbox) can now be accessed from the TED Application Manager.

AIX Windows Desktop Users

If you have previously used the AIX Windows Desktop the following points will help ease your transition to using the TriTeal Enterprise Desktop (TED):

- Preferences that you previously set from the User Preferences dialog can now be set from the TED Style Manager. This includes items such as Colors, Fonts, Mouse controls and so forth.
- Many of the tools you previously accessed through the various desktops (such as Applications, Power, Supplies) can now be accessed from the TED Application Manager.

General Guidelines for Previous X Window System Users

If you have previously run X11 you must be aware of the following major differences between a standard X11 environment and the TriTeal Enterprise Desktop (TED).

- TED does not use a startup script (such as `$HOME/.x11start` or `$HOME/.xinitrc`). The functionality of the startup script is replaced by the TED Session Manager.
- TED does not automatically load a user-specific resource file (such as `$HOME/.Xdefaults`). Resources are loaded for a TED session by the session manager.
- The `$HOME/.profile` (or `$HOME/.login`) file is not explicitly used by TED. You can request that these files be read (or sourced) in by modifying the `$HOME/.dtprofile` file.
- TED uses the TED Window Manager (based on the Motif Window Manager, `mwm`).
- If you have previously run the X Window System, you may have an entry in your `$HOME/.profile` (or `$HOME/.login`) file that runs `.x11start`. You must remove this entry; otherwise, the script may run when you log into the system and request that your `.login` be sourced.

Moving your Resources into TED

Before you incorporate previous resources into the TED environment, you should carefully examine them and choose only those resources that you want in the new environment. Keep in mind that resources that specify fonts and colors for clients will prevent the TED Style Manager from customizing those resources. There are two ways to incorporate resources you have already been using into the TED environment:

- Resources to be applied system-wide (for all users) can be placed into

  `/etc/dt/config/C/sys.resources`

  before any users have run a TED session.

  This file is read by the session manager the first time a user logs into TED. However, be aware that this file is not read once the user has run a TED session and has a

  `$HOME/.dt/sessions/`*`current_or_home`*`/dt.resources` file saved by the Session Manager.

- Resources to be applied on a per-user basis are best merged into the user's resource database during a TED session. To merge the resources:

  a. Copy `$HOME/.Xdefaults` to a new file.

  b. Edit the new file to specify the resources you wished passed into the TED environment.

  c. Execute the following command from a terminal window running during a session:

  ```
  xrdb -merge -nocpp <filename>
  ```

  where `<filename>` is the name of the edited file. This merges the resources into the `X` servers `RESOURCE_MANAGER` property string.

Environment Variables

The login manager has various environment variables built in. It also provides ways to:

- Override the built-in values.
- Add additional environment variables.

Both system-wide and personal variables can be specified.

- System-wide variables are placed in:

  ```
  /etc/dt/config/Xconfig
  ```

- The `environment` resource is used to set the value of environment resources. For example, the following line specifies a system-wide editor and language:

  ```
  Dtlogin*environment: EDITOR=vi LANG=C
  ```

- Variables specified on a per-display basis are placed in:

  ```
  /etc/dt/bin/Xsession
  ```

- User-specific variables are set in `$HOME/.dtprofile`. The `.dtprofile` file should contain only variable settings; it should contain neither shell commands that require terminal I/O nor commands that run in the foreground.

To execute the users `.login` file at the time you log in, the appropriate *source* command for the user's shell type (`sh`, `csh`, or `ksh`) must first be uncommented. The source commands are the last two entries in the `$HOME/.dtprofile` file.

Switching to the dtwm Window Manager

If you have been using the `mwm` window manager, switching to the `dtwm` window manager involves:

- Moving the customizations from the `mwm` configuration file

  ```
  ($HOME/.mwmrc)
  ```

  into the `dtwmrc` configuration file (`$HOME/.dt/dtwmrc`). To do this:

  a. Copy `/usr/dt/config/C/sys.dtwmrc` to `$HOME/.dt/dtwmrc`. Give the new file write permission.

  b. Copy any customizations you've made in `.mwmrc` into `dtwmrc`.

  c. If necessary, use the following `dtwm` resources to define the custom button bindings and key bindings you want to use:

  ```
  dtwm*buttonBindings:  ButtonBindingsSetName
  dtwm*keyBindings:     KeyBindingsSetName
  ```

  d. If you want to use a different workspace (root) menu, replace the button binding:

  ```
  <Btn1Down>   root  f.menu DtRootMenu
  <Btn3Down>   root  f.menu DtRootMenu
  ```

  with

  ```
  <Btn1Down>   root  f.menu my_menu_name
  <Btn3Down>   root  f.menu my_menu_name
  ```

  e. Change any `mwm` resources to `dtwm` resources in the resource database. For example, you would need to change the resource.

  ```
  Mwm*keyboardFocusPolicy:  pointer
  ```

  to:

  ```
  Dtwm*keyboardFocusPolicy:  pointer
  ```

There are three ways to modify the resource database for the window manager. The way you choose depends on the scope of the change and whether or not the user has already run a TED session:

- To provide system-wide resources, you can edit the file

  `/etc/dt/app-defaults/C/Dtwm`

  Note, however, that this file could be replaced by future TED updates.

- The file `/etc/dt/config/C/sys.resources` is read by the session manager the first time a user logs into TED. Thus, you can place system-wide resources there. However, be aware that this file is not read once the user has run a TED session and has a resource database saved by the session manager.
- Once the user has run a TED session, user-specific resources are added directly to the `RESOURCE_MANAGER` property string. See "Moving Your Resources to the TED Environment" earlier in this chapter.

To replace your `X11` startup script for TED sessions:

- Log into a TED session.
- Use a terminal emulator to start the applications that were previously started from your `X11` startup script. Do not start a window manager (the TED window manager will already be running).
- You now have two choices:
  - You can proceed with your session, opening and closing applications as necessary. Your next session will start the applications running at the end of your previous session. This is the default behavior.
  - You can save and use a *home* session using the TED Style Manager. This allows you to see the same session each time you log in.

Technical Support 5

To receive TED Technical Support, see:

Getting Support

Initial installation and configuration support for TED should be provided by your TriTeal authorized distributor or reseller. Please contact them with any questions concerning issues addressed in this manual, and any other questions regarding the initial installation, configuration, and execution of TED. If you are unable to receive the appropriate information from your reseller, or you purchased your software from TriTeal directly, then please contact TriTeal as described below. TriTeal provides 30 days of initial installation and configuration support from the date of purchase.

Address:
TriTeal Corporation
2011 Palomar Airport Road
Suite 200, Carlsbad
CA 92009 USA

Telephone Support:

Voice:	(619) 930-2077	*Request TED Technical Support

FAX:	(619) 930-2081	*Send to TED Technical Support
Electronic Support:		
Technical:	support@triteal.com	*Reference TED Technical Support
Sales:	info@triteal.com	
World Wide Web:	http://www.triteal.com	

Access the TriTeal WWW site for general information on technical and sales issues:

- Product Upgrades and Enhancements.
- Code and configuration file examples to help you solve problems quickly and easily.
- Frequently Asked Questions (FAQ).
- TED Patches (where available).
- Software Defect Report Form.

TriTeal is committed to providing the best possible support services to our customers. Our support center is staffed from 6AM - 6PM PST. TriTeal will attempt to address your support issues in a timely manner. If your support issue requires a code modification to resolve, then TriTeal will respond back to you with a projected time-frame in which this will occur.

Extended run-time support contracts (past the initial 30 days) are available from your reseller or from TriTeal directly. TriTeal also provides developer support contracts to assist in the development and integration of your X and Motif based applications with TED and the Common Desktop Environment features. Please contact TriTeal directly for information regarding developer support contracts. TriTeal also provides extended hour and dedicated service support contracts for customers with time-critical needs. Please contact TriTeal directly for information regarding these support services.

Note – If you are ever dissatisfied with the support service or information you are receiving then please send electronic mail to **support.manager@triteal.com**. Your concerns will be addressed and a support manager will personally respond to you regarding how to resolve them.

Product Updates

TriTeal will periodically release new revisions or versions of TED products. Customers with current support contracts will receive new product revisions at no cost and new product versions at a significantly reduced cost. In addition, TriTeal periodically makes minor code updates to address specific customer problems. These updates are not distributed to current TED customers, but are put on an open ftp site with an associated **ted_updates** file which describes the problems addressed by the update and how to install the update.

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