

TIBCO Enterprise Message Service™

Installation

*Software Release 4.3
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Preface

TIBCO Enterprise Message Service™ software lets application programs send and receive messages according to the Java Message Service (JMS) protocol. It also integrates with TIBCO Rendezvous and TIBCO SmartSockets message products.



This software may be available on multiple operating systems. However, not all operating system platforms for a specific software version are released at the same time. Please see the readme.txt file for the availability of this software version on a specific operating system platform.

Topics

- *Related Documentation, page viii*
- *How to Contact TIBCO Customer Support, page x*

Related Documentation

This section lists documentation resources you may find useful.

TIBCO Enterprise Message Service Documentation

The following documents form the TIBCO Enterprise Message Service documentation set:

- *TIBCO Enterprise Message Service User's Guide* Read this manual to gain an overall understanding of the product, its features, and configuration.
- *TIBCO Enterprise Message Service Installation* Read the relevant sections of this manual before installing this product.
- *TIBCO Enterprise Message Service Application Integration Guide* This manual presents detailed instructions for integrating TIBCO Enterprise Message Service with third-party products.
- *TIBCO Enterprise Message Service C & COBOL API Reference* The C API reference is available in HTML and PDF formats.
- *TIBCO Enterprise Message Service Java API Reference* The Java API reference is available as JavaDoc, and you can access the reference only through the HTML documentation interface.
- *TIBCO Enterprise Message Service .NET API Reference* The .NET API reference is available in PDF and HTML format.
- *TIBCO Enterprise Message Service Release Notes* Release notes summarize new features, changes in functionality, and closed issues. This document is available only in PDF format.

Other TIBCO Product Documentation

You may find it useful to read the documentation for the following TIBCO products:

- TIBCO Rendezvous™ software
- TIBCO SmartSockets™ software

Third Party Documentation

- Java™ Message Service specification, available through java.sun.com/products/jms/index.html

- *Java™ Message Service* by Richard Monson-Haefel and David A. Chappell, O'Reilly and Associates, Sebastopol, California, 2001.

How to Contact TIBCO Customer Support

For comments or problems with this manual or the software it addresses, please contact TIBCO Support Services as follows.

- For an overview of TIBCO Support Services, and information about getting started with TIBCO Product Support, visit this site:

<http://www.tibco.com/services/support/default.jsp>

- If you already have a valid maintenance or support contract, visit this site:

<http://support.tibco.com>

Entry to this site requires a username and password. If you do not have a username, you can request one.

Chapter 1 **Installation Overview**

This chapter presents an overview of the installer program.

Topics

- *Installer Overview, page 2*
- *Installation Registry and History, page 3*

Installer Overview

The TIBCO Installer allows you to run in different modes. Each mode is supported on all platforms.

- GUI mode
- Console mode
- Silent mode

GUI Mode

In GUI mode, the installer presents panels that allow you to make choices about product selection, product location, and so on. GUI mode is the installer's default mode; it is used, for example, when you invoke the installer by double-clicking on the icon in Microsoft Windows.

Console Mode

Console mode allows you to run the installer from the command line. This is useful if your machine does not have a window environment.

When running in console mode, you can move through the installation process using the following keys:

- `Enter` key—Moves forward in the installer
- `2`—Goes back to previous screen
- `3`—Cancels the installer and exists the installation or uninstallation
- `4`—Redisplays the current screen.

Silent Mode

Silent mode either installs using the default settings or uses a response file that was saved during an earlier installation. Silent mode installs without prompting you for information.

- If no response file has been recorded earlier and you invoke the installer with the `-silent` argument, the default installation parameters are used.
- If a response file exists, and the installer is started with `-options <responseFileName>` as an argument, the installer uses the values specified by the user when the response file was generated.

Installation Registry and History

The installer maintains an installation registry. The registry location depends on the platform. This section explains where the registry files are located. The file names include the prefix `vpd`, which stands for Vital Product Database.



Do not edit, modify, rename, move, or remove any of the registry `vpd` files.

Microsoft Windows Platforms

An installation registry is maintained in the `%windir%` folder. The following files represent the installation registry:

```
%windir%\vpd.properties
%windir%\vpd.properties.tibco.systemName
```

Installer Disk Space Requirements in Temporary Area

The entire package is extracted into a temp folder, typically `SystemDrive:\Temp` or `SystemDrive:\Documents and Settings\user_name\Local Settings\Temp`.

The installer requires 32MB of free space in the temp directory.

UNIX Platforms

If installation is performed by a regular user (non-root), the installation registry is maintained in the following files in the user's home directory:

```
$HOME/vpd.properties
$HOME/vpd.properties.tibco.systemName
```

If installation is performed by super-user (root), the installation registry is maintained as follows:

- On Solaris and HP-UX, in the root user's home directory (which is `/`) as `vpd` files.
- On Linux, in the `/root` directory as `vpd` files.
- On AIX, in the `/usr/lib/objrepos` directory as `vpd` files.

Installer Disk Space Requirements in Temporary Area

The installer launcher first extracts the JVM in a temporary directory and uses this JVM to launch itself. The size of the extracted JVM differs from platform to platform.



The installer can also use a JVM if the version it requires is available on your system. In that case, the bundled JVM is not extracted and significantly less disk space is required.

On UNIX platforms the following disk space is required in the temporary area:

- On Solaris, 50 MB of free disk space.
- On HP-UX, 85 MB of free disk space.
- On AIX, 30 MB of free disk space.
- On Linux, 50 MB of free disk space.
- On Tru64, 65 MB of free disk space.
- On Mac OS X, 70 MB of free disk space.

If your system does not have sufficient free disk space in the above temporary area, you can still run the installer with a different temporary area by using the following option when starting the installer:

```
-is:tempdir /new_tmp
```

where /new_tmp has sufficient free disk space.

For example, on Solaris:

```
TIB_ems-simple_4.3.0_sol7_sparc.bin -is:tempdir /new_tmp
```

Disk Space Requirement in User's Home Directory

On UNIX platforms, when a regular (non-root) user installs a TIBCO product, the installation registry (vpd files) is maintained in the user's home directory. As more products are installed, entries are added into these vpd files.

The user's home directory must at least have 500 KB of free disk space.

Installation History

The installer creates a file called `TIBCOInstallationHistory.xml` in the location where the installation registry is created. Each time an installation or uninstallation is performed, entries are appended to the file.

On Windows: %windir%\TIBCOInstallationHistory.xml

On UNIX: `$HOME/TIBCOInstallationHistory.xml`

The file will be used by the installer in future releases.

Chapter 2

Installation on Microsoft Windows

This chapter explains how to install TIBCO Enterprise Message Service on Microsoft Windows platforms.

Topics

- *Installation Prerequisites, page 8*
- *Installation Options, page 10*
- *Installation Notes, page 12*
- *Register the Server as a Windows Service, page 13*

Installation Prerequisites

Before starting the installation procedure, review the topics in this section to determine that your system meets the basic requirements and that you have the prerequisite software installed.

System Requirements

We recommend the following minimum system configuration for production systems. The actual requirements depend on your application environment.

- Hardware Memory: 256MB of RAM recommended.
- Disk Space: 60MB for installation.
- Disk Space for Messaging: 256MB minimum.

Supported Platforms

The following platforms are supported:

- Microsoft Windows 2000 (Professional, Server, and Advanced Server) with Service Pack 2 or higher
- Microsoft Windows XP
- Microsoft Windows 2003

Required Software

- Java Runtime Environment (JRE) (current release).

Additional Software

TIBCO Rendezvous 6.6 or higher is required if you will use TIBCO Enterprise Message Service to exchange messages with TIBCO Rendezvous. If Rendezvous is already installed on your network, additional licenses are required only if you are adding additional hosts (client, server, development subnets, and so on) to your network.

Installation Package

`TIB_ems-simple_4.3.0_win_x86.exe`

Installer Account

You must have administrator privileges to install this product.

Installing to a Networked Drive

If you intend to install the product onto a networked drive, you must have permissions to write to that drive.

If you do not know how to do this, go to the machine so you can install locally, or consult Microsoft Windows online help.

Installing on Windows 2000 and 2003 Terminal Server

There are two modes in Windows Terminal Server: *Execute* and *Install*. Users are logged on by default in Execute mode, which allows them to run applications. To install an adapter so that everyone can use it, log on as administrator in Install mode. When the adapter is installed in the Install mode, the installation registry is maintained in %windir%\.



Windows Terminal Server must be running in remote admin mode, not application sharing mode. TIBCO Enterprise Message Service is not supported if installed on a machine that is using Windows Terminal Server in application sharing mode.

The best way to install the TIBCO Enterprise Message Service on Windows Terminal Server is to use the Add/Remove Programs control panel applet. This automatically sets your mode to Install during the installation and then back to Execute afterwards. Alternatively, you can manually change your mode to Install before starting the installation by typing the following at a command prompt:

```
C:\> change user /install
```

Change back to Execute mode after installation is complete by typing:

```
C:\> change user /execute
```

To check your current mode, type the following:

```
C:\> change user /query
```

Installation Options

If you are upgrading TIBCO Enterprise Message Service, or reinstalling a clean version of the software, you may uninstall the product first or let the installer take care of performing the upgrade or reinstall.

If any files are currently locked, the installer places them in a temporary location and performs the actual upgrade the next time you reboot.

You can either download the TIBCO Enterprise Message Service installation package or install the components from a CD. The installer prompts you to accept the license agreement, then to choose to perform a typical install or custom install.

- A typical install has minimal prompts and installs standard components in default locations.
- A custom install prompts you to choose which components of the product suite to install and installs only those components.

If you are installing for the first time, you can specify the installation directory where the products in this product suite will be installed. On Microsoft Windows, the default installation directory is `<system_drive>:\tibco`.

The following sections discuss different installer options.

Install Using GUI Mode

GUI mode lets you input values in panels (see GUI Mode on page 2). Type the following at the command prompt:

```
TIB_ems-simple_4.3.0_win_x86.exe
```

Install Using Console Mode

Console mode allows you to install the software in a non-window environment (see Console Mode on page 2). The installer will prompt you for values. Type the following at the command prompt:

```
TIB_ems-simple_4.3.0_win_x86.exe -a -is:javaconsole -console
```

Install Using Silent Mode With Default Values

Silent mode allows you to install the software without prompts (see Silent Mode on page 2). Type the following at the command prompt:

```
TIB_ems-simple_4.3.0_win_x86.exe -a -silent
```

Install Using a Response File

You can use a previously generated response file for installation. For non-silent modes, the response file determines the defaults that are presented. For silent mode, the response file determines what will be installed.

To install using a response file, type the following at the command prompt:

```
TIB_ems-simple_4.3.0_win_x86.exe -a -options responseFile
```

Install and Capture a Response File

You can capture the values that you supply during the installation, saving them in a *response file*. You can use the response file to speed subsequent installations.

To install and generate a response file, type the following at the command prompt:

```
TIB_ems-simple_4.3.0_win_x86.exe -options-record responseFile
```



The response file does not record selections at the component level. For example, it will not remember whether you chose to install documentation for a product. It does record all other selections, for example, which products you installed.

Install Using a Response File

You can use a previously captured response file for installation.

- In silent mode, the response file determines the installation parameters.
- In other installation modes, the response file determines the defaults that are presented during installation.

To install using a response file, type the following at the command prompt:

```
TIB_ems-simple_4.3.0_win_x86.exe -a -options responseFile
```

Combining Options

You can combine the different available options. For example, to install in silent mode using a response file, use:

```
TIB_ems-simple_4.3.0_win_x86.exe -a -options responseFile -silent
```

To install using Console mode and generate a response file, use:

```
TIB_ems-simple_4.3.0_win_x86.exe -a -is:javaconsole -console -options-record responseFile
```

Installation Notes

Shared Files in System Directory

EMS requires four files that are shared with other TIBCO products:

- `TIBCOInstallerInstance`
- `TIBCOInstallationHistory.XML`
- `vpd.properties.tibco.hostname`
- `vpd.properties`

EMS installation places these four files in the `%windir%` folder.

EMS uninstall does not remove these files, since they might be needed by other TIBCO products. If no other TIBCO products are installed, you may remove these files manually.

Non-Default Installation Directory

The default installation directory for EMS is `C:\tibco`. Alternatively, you may specify another directory. However, under Windows 2000, the installer might not properly parse directory names containing spaces (especially names containing more than one space character).

For example, it behaves correctly for the directory

`C:\Program Files`

However, it behaves incorrectly for the directory

`C:\Program Files Too`

To prevent confusion, we recommend enclosing such directory names within double-quote characters (for example, "`C:\Program Files Too`").

Register the Server as a Windows Service

Some situations require the EMS server to start automatically. You can satisfy this requirement by registering the server daemon with the Windows service manager. To facilitate registry with the Windows service manager, the EMS \bin directory includes the utility program `emsntsreg`.

See Also

`emsntsreg` on page 246 in *TIBCO Enterprise Message Service User's Guide*

Chapter 3 **Installation on UNIX Systems**

This chapter explains how to install TIBCO Enterprise Message Service on UNIX systems.

Topics

- *Installation Prerequisites, page 16*
- *Installation Options, page 20*

Installation Prerequisites

Before starting the installation procedure, review the topics in this section to determine that your system meets the basic requirements and that you have the prerequisite software installed.

System Requirements

The following system requirements are recommended for production systems. The actual requirements depend on your application environment.

- Hardware Memory: 256MB of RAM recommended.
- Disk Space: 110MB for installation.
- Disk Space for Messaging: 256MB minimum.

Required Software

- Java Runtime Environment (JRE) (current release recommended).

Additional Software

TIBCO Rendezvous 6.6 or higher is required if the Rendezvous routing feature of the server is used. If Rendezvous is already installed on your network, additional licenses are required only if you are adding additional hosts (client, server, development subnets, and so on) to your network.

Supported Platforms and Installation Packages

Table 1 UNIX Installation Packages (Sheet 1 of 2)

| Installer Suffix | Platform | Notes |
|------------------|----------------------------------|-------|
| sol7_sparc | Sun Solaris 7 and later on SPARC | |
| sol10_x86 | Sun Solaris 10 on x86 | |
| hpux110_hppa | HP-UX 11.0, 11i | |
| hpux112_ia64 | HP-UX Itanium 11.22 (or later) | |
| aix51_power | IBM AIX 5.1 | |

Table 1 UNIX Installation Packages (Sheet 2 of 2)

| Installer Suffix | Platform | Notes |
|------------------|----------------------------|--|
| linux24gl22_x86 | Linux (kernel 2.4) | Requires kernel 2.4.20 or later. Requires glibc 2.2.4. |
| linux24gl23_x86 | Linux (kernel 2.4) | Requires kernel 2.4.20 or later. Requires glibc 2.3 or later. |
| linux24gl22_ia64 | Linux Itanium (kernel 2.4) | Requires kernel 2.4.18 or later. Requires glibc 2.2.4 or later. See instructions for Special Case Installations on page 18. |
| linux24gl23_ia64 | Linux Itanium (kernel 2.4) | Requires kernel 2.4.18 or later. Requires glibc 2.3 or later. |
| tru6451_alpha | HP Tru 64 UNIX 5.1B | See instructions for Special Case Installations on page 18. |
| macosx_power | Mac OS X 10.3 and later | Install from a binary executable (.bin file), rather than an installation package. See instructions below, at Mac OS X Install. |

Installer Account

TIBCO products can be installed by a regular (non-root) user and super-user (root). Different users can install the same product at different locations.

Display Environment

A GUI environment is required to run the installer in GUI mode. It is not required for a console or silent installation.



For information about installing on UNIX systems, see DISPLAY Variable FAQ on page 37.

Mac OS X Install

The EMS installer for Mac OS X is parallel to the installer for other UNIX platforms (it does not use Apple's installer GUI). Opening the MacEMS package icon does *not* install the product. Instead, install using a terminal window:

Opening a
Terminal Window

1. Open a Finder window.
2. In the Finder window, open the Applications folder.
3. In the Applications folder, open the Utilities folder.
4. In the Utilities folder, start the Terminal program (by double-clicking its icon).

Starting the
EMS Installer

5. Change directory to the EMS installation directory:

```
cd install_directory
```

The default installation directory is \$USER_HOME/tibco.

6. Run the installer binary executable:

```
./TIB_ems-simple_4_3_0_macosx_power.bin
```

This command opens the Java InstallShield wizard.



The .bin file is not a MacBinary encoded file, rather a UNIX binary executable file.

Special Case Installations

On some platforms technical issues require a different installation procedure. If the installation package for your platform is a .tar.gz file, follow these steps:

Install

1. Unzip the product package. For example:


```
# gunzip package_file
```
2. Unpack the resulting tar file. For example:


```
# tar xvf tar_file
```
3. Execute the tibinstall script and follow the instructions.


```
# ./tibinstall
```
4. Change the ownership and group of the EMS top directory to the user who will execute the software:

```
prompt> cd installation_path/tibco/
```

```
prompt> chown -R username  
prompt> chgrp -R groupname
```

Uninstall To uninstall, use this shell command:

```
prompt> rm -fr installation_path/tibco/ems/
```

Installation Options

If you are upgrading TIBCO Enterprise Message Service, or reinstalling a clean version of the software, you may uninstall the product first, or let the installer take care of performing the update or reinstall.

If any files are currently locked, the installer places them in a temporary location and performs the actual update the next time you reboot.

After unpacking the software and accepting the license agreement, you can choose to perform a typical install or custom install.

- A typical install has minimal prompts and installs standard components in default locations.
- A custom install prompts you to choose which pieces of the product suite to install and installs only those components.

If you are installing for the first time, you must specify the installation directory where the products in this product suite will be installed. The default installation directory depends on who performs the installation:

- For non-root users, the default installation directory is `/<myhome>/tibco`, where `<myhome>` is the home directory of the user.
- For root users, the default installation directory is `/opt/tibco`.

Install Using GUI Mode

GUI mode lets you input values in panels (see GUI Mode on page 2). Type the following in a terminal window:

```
./TIB_ems-simple_4.3.0_platform.bin
```

Install Using Console Mode

Console mode allows you to install the software in a non-window environment (see Console Mode on page 2). The installer will prompt you for values. Type the following in a terminal window:

```
./TIB_ems-simple_4.3.0_platform.bin -is:javaconsole -console
```

Install Using Silent Mode with Default Values

Silent mode allows you to install the software without prompts using default values (see Silent Mode on page 2). Type the following in a terminal window:

```
./TIB_ems-simple_4.3.0_platform.bin -silent
```

Install and Capture a Response File

You can capture the values that you supply during the installation, saving them in a *response file*. You can use the response file to speed subsequent installations.

To install and generate a response file, type the following at the command prompt:

```
TIB_ems-simple_4.3.0_platform.bin -options-record responseFile
```



The response file does not record selections at the component level. For example, it will not remember whether you chose to install documentation for a product. It does record all other selections, for example, which products you installed.

Install Using a Response File

You can use a previously captured response file for installation.

- In silent mode, the response file determines the installation parameters.
- In other installation modes, the response file determines the GUI or console defaults.

To install using a response file, type the following at the command prompt:

```
TIB_ems-simple_4.3.0_platform.bin -options responseFile
```

Combining Options

You can combine the different available options. For example, to install in silent mode using a response file, use:

```
TIB_ems-simple_4.3.0_platform.bin -silent -options responseFile
```

To install using Console mode and generate a response file, use:

```
TIB_ems-simple_4.3.0_platform.bin -is:javaconsole -console -options-record responseFile
```

Change Ownership of the Installed Files

Change the ownership of the TIBCO Enterprise Message Service top directory to the user who will execute the software. For example, the following shell commands change the ownership and group:

```
cd EMS_HOME
chown -R username .
chgrp -R groupname .
```


Chapter 4 **VMS**

Follow these instructions to install TIBCO EMS software on VMS platforms.

Installation on VMS platforms uses the `VMSINSTAL` utility, which is described in the OpenVMS system management documentation.

Topics

- *Log In as SYSTEM, page 24*
- *Check TCP/IP Services, page 25*
- *Mount the Distribution Media, page 26*
- *Copying the Distribution from the EMS Web Site, page 27*
- *Install the EMS Product Files, page 28*
- *Verify Installation, page 29*
- *User Accounts, page 30*
- *Additional Information for VMS Programmers, page 31*

Log In as SYSTEM

Log in to the SYSTEM account.

Check TCP/IP Services

EMS software will operate properly only if you have installed and started TCP/IP services.

Table 2 VMS TCP/IP Services

| VMS Release | Recommended TCP/IP Services |
|---|---------------------------------------|
| OpenVMS 7.3 | Digital TCP/IP Services v5.4 or later |
| OpenVMS 8.2 | Digital TCP/IP Services v5.5 or later |
| TCP/IP services from other reliable vendors | |

Although you can successfully *install* the EMS files without running TCP/IP services, the EMS installation verification procedure will fail if TCP/IP services have not been started.

Mount the Distribution Media

Insert the EMS distribution CD-ROM into the CD-ROM drive.

The `mount` command automatically determines that the CD-ROM is formatted according to ISO 9660, but you must specify the record format for the backup save sets. For example:

```
$ mount /media_format=CDROM -  
$_ /undefined=fix:none:8192 CD_device ems43
```

Copying the Distribution from the EMS Web Site

File Attributes

When copying VMS save sets through a Windows PC or UNIX computer, the resulting files do not retain the proper file attributes. As a result, the VMS BACKUP utility cannot read them to install them.

To rectify this situation, copy the files to a computer running VMS, and use this command to restore the correct file attributes:

```
$ set file /attr = (RFM:FIX, RAT:NONE, LRL:8192) tibems043.*
```

ZIP Files

Files on the EMS web site are zipped (compressed) using the VMS free software ZIP utility. To preserve the file attributes, unzip them on a VMS computer (and *not* on a PC or UNIX computer).

Install the EMS Product Files

The distribution CD-ROM contains the EMS software for VMS platforms, as shown in Table 3.

Table 3 VMS Distribution Directories

| Platform | Directory |
|--------------------------------|--------------------------|
| Alpha OpenVMS v.7.3-2 or later | CD_device: [VMS73.ALPHA] |
| Itanium OpenVMS v.8.2 or later | CD_device: [VMS82.IA64] |

1. Locate the directory name in Table 3.
2. Retrieve and read the release notes, which are in the sys\$help directory. For example, to retrieve the release notes without installing EMS software, use these commands as a model:
\$ @sys\$update:vmsinstal tibems043 dka100:[VMS73.ALPHA] -
\$_ options N

The release notes are in the file sys\$help:tibems043.release_notes.

3. Install the product software. Specify the product name and directory on the command line to VMSINSTAL. For example:
\$ @sys\$update:vmsinstal tibems043 dka100:[VMS73.ALPHA]

The installation procedure requires your input. The most important items you supply are the target location for the EMS files, and the environment to install (development or runtime environment).

The installation procedure takes less than 10 minutes.

Verify Installation

We recommend that you verify correct operation of EMS software using sample programs included with this distribution.

1. Compile and link the sample programs using these command lines:

```
SETDEFAULT TIBEMS:[SAMPLES.C]  
@MAKE_SAMPLES.COM
```

2. Execute the sample programs using this command line:

```
@QUICK_TEST.COM serverHost:7222
```

3. Compare the terminal output with the sample output in
SYS\$HELP:TIBEMS043.RELEASE_NOTES.

User Accounts

To run EMS client programs, user accounts must have NETMBX and TMPMBX privileges.

Additional Information for VMS Programmers

Compile

On VMS platforms, EMS programmers must define the C-compile command appropriately.

For the Compaq C compiler:

```
$ CC := CC/FLOAT=IEEE/IEEE_MODE=UNDERFLOW_TO_ZERO -  
/PREFIX=ALL/INCLUDE_DIRECTORY=( "/tibems/include", [ ] )
```

Link

EMS API libraries are single-threaded, so configuration for multi-threading is not required.

Chapter 5

Uninstall



Before uninstalling TIBCO EMS, save a backup copy of any files you have modified.

Windows

To uninstall EMS from a Windows platform, use the Windows uninstall package, accessible through the control panel **Add or Remove Programs**.

UNIX

To uninstall EMS from a UNIX platform, run the uninstaller from this location:

```
EMS_home/_uninst/Tibuninstall.bin
```


Chapter 6

Installation FAQs and Troubleshooting

This chapter lists answers to questions and potential issues.

Topics

- *Running Out of Disk Space, page 36*
- *DISPLAY Variable FAQ, page 37*
- *Installation on HP-UX 11.00 64 bit Platform, page 39*
- *Installation on Tru64 Platform, page 40*

Running Out of Disk Space

The installer calculates the disk space required in product home location, for the selected components. The calculation is done before the actual installation (copying of files to system) begins. The installer will proceed only if sufficient free disk space is available in product home location.

However, if disk space is consumed by another process while the installer is copying the files, and if the required disk space is thereby reduced, then the installer may fail, then the installer may fail and will give a failure message.

Solution

While performing installation, avoid running other processes that consume disk space in product home location.

DISPLAY Variable FAQ

- Q** Should I set the DISPLAY variable on Mac OS X platforms for GUI mode?
- A** No. In Mac OS X, Java is integrated with the native Macintosh graphics system, rather than with X11. As a result, you must have physical access to the machine's graphic display in order to install EMS on Macintosh platforms.
-

- Q** Why and how should I set the DISPLAY variable on other UNIX platforms for GUI mode?
- A** The installer on UNIX, must open an additional window, generally for graphics. It uses the DISPLAY environment variable to tell it on what computer to open the window. If the environment variable is not set, the installer will either wait or abort after displaying:

```
InstallShield Wizard
Initializing InstallShield Wizard...
Preparing Java(tm) Virtual Machine...
.....
.....
.....
```

The DISPLAY variable must be set to the IP address or name of the computer (on which the installer graphics window are to be displayed), followed by a screen address, which can be :0.0. For example:

```
# Bourne shell
DISPLAY=<ip_address>:0.0; export DISPLAY

# Korn shell
export DISPLAY=<ip_address>:0.0

# C-shell
setenv DISPLAY <ip_address>:0.0
```

For example, consider a scenario where you need to install the adapter on a remote HP-UX machine (named *itaska*). Because you have a Solaris 5.6 machine (named *alaska*) that has a video card and monitor installed, you can run an X-Window application on it. So you decide to telnet to *itaska* from *alaska*.

When you telnet to *itaska*, you will not get access to *itaska*'s monitor and will be unable to display an X-Window application. That is why you must set the DISPLAY variable, which instructs the X-Server to redirect all windows to the computer set in the variable. Before doing so, the computer (specified in the DISPLAY variable) must give permissions to share its monitor.

```
alaska> xhost + # give permission for all to its share monitor
```

```
alaska> telnet itaska
Welcome to HP-UX itaska 11.00
User:
Password:
itaska> export DISPLAY=alaska:0.0 # set display on alaska
itaska> ./TIB_ems-simple_4.3.0_hpux110_hppa.bin
```


Installation on HP-UX 11.00 64 bit Platform

Installation Crash

Installation on a HP-UX 11.00 64 bit system may crash with the following error message:

```
Pid nnn killed due to trashed stack.
Pid nnn was killed due to failure in writing the signal context.
```

This happens only on HP-UX 11.00 64 bit systems. It does not happen on HP-UX 11.00 32 bit system and HP-UX 11.11 (or 11.i) system.

To determine the OS version on your system, run:

```
uname -a
```

To determine the kernel bits on your system, run:

```
getconf KERNEL_BITS
```

Resolution

HP-UX kernel patch PHKL_27282, resolves the above crash.

To determine if your system has the kernel patch, run:

```
/usr/sbin/swlist -l product PHKL_27282
```

or

```
what /stand/vmunix | grep PHKL_27282
```

If your system is an HP-UX 11.00 64 bit system and it does not have the patch, first install HP-UX kernel patch PHKL_27282 and then proceed with the installation. Installation of patch PHKL_27282, will reboot your system.

Installing as Root User Error

When installing as root user on HP-UX, you may get the following error:

```
Assertion failed: so->so_hard_contents, file softobj.c, line 363
```

Resolution

Install as non-root user.

Installation on Tru64 Platform

The following error message may appear when installing on the Tru64 platform:

```
^D@AA: is not an identifier
```

Resolution

Installation on Tru64 requires POSIX compliant Bourne Shell.

Before you start the installation, set the following environment variable:

```
BIN_SH=xpg4; export BIN_SH      // Bourne shell  
setenv BIN_SH xpg4              // C-shell
```