

TIBCO Enterprise Message Service™

Installation

*Software Release 6.2
November 2011*

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Preface



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.

TIBCO is proud to announce the latest release of TIBCO Enterprise Message Service™. This release is the latest in a long history of TIBCO products that leverage the power of the Information Bus® to enable truly event-driven IT environments. To find out more about how TIBCO Enterprise Message Service and other TIBCO products are powered by TIB® technology, please visit us at www.tibco.com.

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 messaging products.

Topics

- [Changes from the Previous Release of this Guide, page viii](#)
- [Related Documentation, page ix](#)
- [Typographical Conventions, page xi](#)
- [How to Contact TIBCO Customer Support, page xiv](#)

Changes from the Previous Release of this Guide

This section itemizes the major changes from the previous release of this guide.

There are no changes from the previous release of this guide.

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 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 can be accessed only through the HTML documentation interface.
- *TIBCO Enterprise Message Service .NET API Reference* The .NET API reference can be accessed only through the HTML documentation interface.
- *TIBCO Enterprise Message Service Release Notes* Read the release notes for a list of new and changed features. This document also contains lists of known issues and closed issues for this release. 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®
- TIBCO SmartSockets®
- TIBCO Hawk®
- TIBCO EMS® Client for z/OS (CICS)
- TIBCO EMS® Client for z/OS (MVS)
- TIBCO EMS® Client for i5/OS

Third Party Documentation

- Java™ Message Service specification, available through <http://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.
- Java™ Authentication and Authorization Service (JAAS) *LoginModule Developer's Guide* and *Reference Guide*, available through <http://java.sun.com/products/jaas/>.

Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
<i>TIBCO_HOME</i>	<p>Many TIBCO products must be installed within the same home directory. This directory is referenced in documentation as <i>TIBCO_HOME</i>. The value of <i>TIBCO_HOME</i> depends on the operating system. For example, on Windows systems, the default value is C:\tibco.</p> <p>Other TIBCO products are installed into an installation environment. Incompatible products and multiple instances of the same product are installed into different installation environments. The directory into which such products are installed is referenced in documentation as <i>ENV_HOME</i>. The value of <i>ENV_HOME</i> depends on the operating system. For example, on Windows systems the default value is C:\tibco.</p> <p>TIBCO Enterprise Message Service installs into a directory within <i>TIBCO_HOME</i>. This directory is referenced in documentation as <i>EMS_HOME</i>. The value of <i>EMS_HOME</i> depends on the operating system. For example on Windows systems, the default value is C:\tibco\ems\6.1.</p>
<i>ENV_HOME</i>	
<i>EMS_HOME</i>	
code font	<p>Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example:</p> <p>Use MyCommand to start the TIBCO foo process.</p>
bold code font	<p>Bold code font is used in the following ways:</p> <ul style="list-style-type: none">• In procedures, to indicate what a user types. For example: Type the username admin.• In large code samples, to indicate the parts of the sample that are of particular interest.• In command syntax, to indicate the default value. For example, if no parameter is specified, MyCommand is enabled: MyCommand [enable disable]

Table 1 General Typographical Conventions

Convention	Use
<i>italic font</i>	<p>Italic font is used in the following ways:</p> <ul style="list-style-type: none">• To indicate a document title. For example: See <i>TIBCO BusinessWorks Concepts</i> for more details.• To introduce new terms For example: A portal page may contain several <i>portlets</i>. Portlets are mini-applications that run in a portal.• To indicate a variable in a command or code syntax that you must replace. For example: <code>MyCommand <i>pathname</i></code>
Key combinations	<p>Key name separated by a plus sign indicate keys pressed simultaneously. For example: Ctrl+C.</p> <p>Key names separated by a comma and space indicate keys pressed one after the other. For example: Esc, Ctrl+Q.</p>

Table 2 *Syntax Typographical Conventions*

Convention	Use
[]	<p>An optional item in a command or code syntax.</p> <p>For example:</p> <pre>MyCommand [optional_parameter] required_parameter</pre>
	<p>A logical 'OR' that separates multiple items of which only one may be chosen.</p> <p>For example, you can select only one of the following parameters:</p> <pre>MyCommand para1 param2 param3</pre>
{ }	<p>A logical group of items. Other syntax notations may appear within each logical group.</p> <p>For example, the following command requires two parameters, which can be either param1 and param2 or param3 and param4:</p> <pre>MyCommand {param1 param2} {param3 param4}</pre> <p>In the next example, the command requires two parameters. The first parameter can be either param1 or param2 and the second can be either param3 or param4:</p> <pre>MyCommand {param1 param2} {param3 param4}</pre> <p>In the next example, the command can accept either two or three parameters. The first parameter must be param1. You can optionally include param2 as the second parameter. And the last parameter is either param3 or param4.</p> <pre>MyCommand param1 [param2] {param3 param4}</pre>

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>

- 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 installation process.

Topics

- [Installation Requirements, page 2](#)
- [Before Installing, page 6](#)
- [Installation Modes, page 8](#)

Installation Requirements

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.

Required Software

The following software is required for all TIBCO Enterprise Message Service installations:

- Java Runtime Environment (JRE) (current release).
- Java Developer Kit (JDK), version 1.6. is required to complete the product installation. If JDK 1.6 is not installed on the target host machine, the TIBCO Universal Installer will install it. See [Chapter 2, Platform-Specific Instructions](#) for platform-specific details.

After installation, JDK version 1.5 or later is required to run TIBCO Enterprise Message Service.

Optional Software

The following software products are optional or required only when the specified optional feature is employed:

- Entrust Version 7.2 or greater libraries are required if you wish to use Entrust with an EMS client.
- Hibernate Core for Java and related jar files are required if you will use the database store feature, which allows the EMS server to store messages in a database.

Hibernate Core for Java is available, along with your TIBCO Enterprise Message Service product distribution, from download.tibco.com. See [Table 3 on page 3](#) for a list of supported databases and drivers.

Database Servers and Drivers

The database store feature is supported with the following databases and corresponding drivers:

Table 3 Supported Databases and Drivers

Database	Driver
MySQL InnoDB	MySQL Connector: mysql-connector-java-5.0.6-bin.jar
Microsoft SQL Server	Microsoft JDBC Driver for SQL Server: sqljdbc.jar
Oracle 9i, 10g and 11g	Oracle JDBC Thin Driver: ojdbc14.jar or ojdbc5.jar
Oracle Real Application Clusters (RAC) 10g	Oracle Instant Client 11g, a light-weight JDBC OCI driver <ul style="list-style-type: none"> ojdbc5.jar with JDK 1.5 ojdbc6.jar with JDK 1.6
IBM DB2 Server 8.1 and 9.1	DB2 Universal JDBC Driver: db2jcc.jar and db2jcc_license_cu.jar

For more information about the database store feature, see [Database Store Overview on page 292](#) of the *TIBCO Enterprise Message Service User's Guide*.

TIBCO Software

- We strongly recommend TIBCO Rendezvous 8.2.2 or higher 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.
- TIBCO SmartSockets 6.8.2 or higher is required if you will use TIBCO Enterprise Message Service to exchange messages with TIBCO SmartSockets. If SmartSockets is already installed on your system, additional licenses are required only if you are adding additional RTclients or RTservers to your network.

System Requirements

- Hardware Memory: 1GB of RAM recommended
- Disk Space: 600MB for installation on UNIX platforms; 512MB on Windows.
- Disk Space for Messaging: 256MB minimum

Disk Space

Temporary Disk Space Required by the Installer

When a TIBCO Enterprise Message Service package is unpacked, it is extracted into a temporary folder. The installer requires at least 250 MB of free space in the temporary directory. On Microsoft Windows, the temporary directory location is %SystemDrive%\Documents and Settings*user_name*\Local Settings\Temp.

If your system does not have sufficient free disk space in the default temporary directory, you can run the installer with a different temporary directory by using the following option when starting the installer. For example:

```
TIBCOUniversalInstaller -is:tempdir \new_tmp
```

where *\new_tmp* has sufficient free 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, the installer may fail and will then give a failure message.

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

Disk Space After Installation

TIBCO EMS can consume 600MB of free space under *TIBCO_HOME* on UNIX platforms, and 512MB on Windows platforms.

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 1MB of free disk space.

VMS

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

Supported Platforms

Supported platforms are listed in the following sections:

- On UNIX: [Table 4, UNIX Distribution Directories, on page 10](#)
- On Windows: [Table 6, Microsoft Windows Distribution Directories, on page 12](#)

Before Installing

Before you begin to install the software, do these items first:

- Read the Compatibility With Previous Versions section of the *TIBCO Enterprise Message Service Release Notes*.
- Read the README file for your software release. The README file is located on the TIBCO download site and on the product distribution, in the same directory as the installation files.
- Read the TIBCO Software Inc. License Agreement included with the product.
- Read the appropriate chapters for your platforms.

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.

Installer Account

UNIX

To install TIBCO EMS, you can login either as a regular (non-root) user or as super-user (root).

A graphic environment such as CDE or X Windows is required to run the installer in GUI mode.



For information about installing on UNIX systems, see [DISPLAY Variable FAQ on page 23](#).

Microsoft Windows

You must have administrator privileges to install TIBCO Enterprise Message Service. If you do not have administrator privileges, the installer exits. You must then log out of the system and log in as a user with the required privileges, or request your system administrator to assign privileges to your account.

If you intend to install the product on a network drive, you must ensure that the account used for installation has permission to access the network drive.

Installer Log File

The installer writes its log file to the *User_Home/.TIBCO* directory. For example, on Windows, the installer writes its log to the *C:\Documents and Settings\user-name\.TIBCO* directory.

Installation Registry

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.

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 /INSTALLSHIELD`

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.

Microsoft Windows Platforms

On Windows platforms, the installation registry is maintained in the *%CommonProgramFiles%* folder:

`%CommonProgramFiles%\Installshield`

Installation Modes

The TIBCO Universal 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.

Silent Mode

Silent mode either installs using the default settings or uses a response file that contains properties you can set for your installation. Silent mode installs without prompting you for information.

The `TIBCOUniversalInstaller.silent` file is packaged in the directory that contains the universal installer. You must edit the file with information for your environment before launching the silent installation. The file includes comments that describe the installation properties you can set.

While you can use the `TIBCOUniversalInstaller.silent` file, it's good practice to copy the file to a different name and use that file for the silent install. Once you have created a `TIBCOUniversalInstaller.silent` for your installation, you can use that file for all your TIBCO EMS version 6.2 installations.

- If you invoke the installer with the `-silent` argument alone, the default `TIBCOUniversalInstaller.silent` file is used.
- If the installer is started with `-silent -V responseFile="responseFileName.silent"` as an argument, the installer uses the properties specified by the file.

Chapter 2 **Platform-Specific Instructions**

This chapter provides installation instructions specific to different platforms. Read this chapter before following the installation procedures outlined in [Chapter 3, TIBCO Universal Installer](#).

Topics

- [Installation on UNIX, page 10](#)
- [Installation on Microsoft Windows, page 12](#)

Installation on UNIX

This section gives information that is specific to UNIX platforms.

Supported Platforms and Installation Packages

TIBCO Enterprise Message Service is available on the UNIX operating systems listed in [Table 4](#). (For the latest changes, see the README file.)

Table 4 UNIX Distribution Directories

OS	Hardware	Installer Package Suffix	Notes
Novell SUSE Linux Enterprise 10 and 11	Intel	linux26gl23_x86.tar.gz	32-bit and 64-bit
Red Hat Enterprise Linux 4.x, 5.x, and 6.x			
Oracle Enterprise Linux 4			

EMS on 64-Bit Systems

TIBCO Enterprise Message Service installations on 64-bit platforms usually include both 32-bit and 64-bit versions of the EMS server and multicast daemons. All daemons are installed in the *EMS_HOME/bin* directory, and you may use either or both versions. There is no difference between the two versions other than the processing speed.

[Table 5](#) shows the names given to each daemon version. Note that on a few 64-bit systems, *only* the 64-bit version is provided. In such cases, the 64-bit daemons use the standard daemon name. This is the case, for example, on all 64-bit Windows systems.

Table 5 EMS on 64-bit systems

Daemon	Daemon Name	64-Bit Daemon Name
EMS Server	tibemsd	tibemsd64
Administration Tool	tibemsadmin	tibemsadmin64

Table 5 EMS on 64-bit systems

Daemon	Daemon Name	64-Bit Daemon Name
Multicast Daemon	<code>tibemsmcd</code>	<code>tibemsmcd64</code>

Throughout the TIBCO Enterprise Message Service documentation, the EMS daemons are referred to by their standard daemon names. For example, server daemon is referred to as `tibemsd`. The descriptions and instructions apply to both daemon 32-bit and 64-bit versions.

Root Access and Administrative Privileges

If TIBCO Enterprise Message Service is installed and the `tibemsd` is started as root, it drops root permissions after the server starts. This protects the EMS server from security exploits. Once the server has dropped root privileges, it cannot write to the files created during the installation. As a result, it is not able to create configuration and log files. To avoid this conflict, create the necessary directories and assign the appropriate privileges to the regular user ID with which the EMS server is started.

Dynamically Linked Libraries

The EMS server dynamically loads the SSL and compression shared libraries, rather than statically linking them. If the `tibemsd` executable is executed from the `bin` directory, it automatically locates these libraries. If the server is moved elsewhere, the shared library directory must be moved as well.

Installation on Microsoft Windows

This section gives information that is specific to Microsoft Windows platforms.

Supported Platforms

TIBCO Enterprise Message Service is available on the Windows platforms listed in [Table 6](#). (For the latest changes, see the README file.)

Table 6 Microsoft Windows Distribution Directories

OS/Platform	Hardware	Installer Package Suffix	Notes
Windows 7 64-bit	Intel (64-bit)	win_x86_64_vc8.zip	For developers using Visual Studio 8.
Windows XP 64-bit			
Windows Server 2003 64-bit			
Windows Server 2008 64-bit			
Windows Vista 64-bit			

Installing on Windows Terminal Server 2003

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
```

Installing on Windows Server 2008, Windows Vista, and Windows 7

Windows Server 2008, Windows Vista, and Windows 7 have more strident file access control than earlier versions of Windows. The access control policies affect all users, even those with Administrator permissions.

Administrator Permissions

In order to ensure that an administrator has permissions to modify configuration and data files, TIBCO Enterprise Message Service now installs these files in a different directory on Windows systems. During installation, you are prompted to enter a Configuration Directory location. After installation, you will find configuration and data files in the specified directory.

The default Configuration Directory is based on the value of your PROGRAMDATA environment variable. For example:

```
C:\ProgramData\tibco
```

Executable Prompt

By default, Windows prompts for consent before starting the `tibemsd` or `tibemsmcd` as administrator. You can disable this elevation prompt for administrator users with the Windows Local Security Policy application. For more information, see the section on changing the elevation prompt behavior here:

<http://technet.microsoft.com/en-us/library/cc709691.aspx>

If you elect not to disable the prompt, the User Account Control screen opens each time you attempt to start the EMS server or multicast daemon. Click **Allow** to start the application.

Works With Windows Server 2008 Certification



TIBCO Enterprise Message Service version 5.x is certified to work with Windows Server 2008.

.NET DLL Installation

During installation, several DLL files are installed in the global assembly cache:

```
TIBCO.EMS.DLL
TIBCO.EMS.ADMIN.DLL
TIBCO.EMS.UFO.DLL
```

If an earlier release of TIBCO Enterprise Message Service is installed on the computer, the EMS 6.2 DLLs replace those of the earlier version.

To reinstall the previous EMS release DLLs, you must first uninstall the 6.2 DLLs, then reinstall the DLLs from the previous release. Both of these tasks are accomplished using the Global Assembly Cache Tool (`gacutil.exe`) provided by Microsoft. DLL files are located in the `bin` directory of the EMS installation.

Policy Files Additionally, the following policy files can optionally be installed in the global cache:

```
policy.1.0.TIBCO.EMS.UFO.dll
policy.1.0.TIBCO.EMS.dll
policy.1.0.TIBCO.EMS.ADMIN.dll
```

When installed, these policy files facilitate upgrades by automatically redirecting existing EMS applications from an older assembly to the newest assembly.

See Also For more information, see the section on Assembly Versioning in the *TIBCO Enterprise Message Service User's Guide*.

Dynamically Linked Libraries

The EMS server dynamically loads the SSL and compression shared libraries, rather than statically linking them. If the `tibemspd` executable is executed from the `bin` directory, it automatically locates these libraries. If the server is moved elsewhere, the shared library directory must be moved as well.

Register the Server as a Windows Service

Some situations require the EMS server to start automatically. The installer automatically installs the EMS server as a Windows service, and allows you to choose whether start the server manually or automatically. After EMS is installed, you can use the `emsntsrc` utility to change the service settings or unregister an EMS server.

See [step 11 of Install in GUI Mode on page 16](#) for more information.

See Also [emsntsrc on page 107](#) in *TIBCO Enterprise Message Service User's Guide*.

Chapter 3

TIBCO Universal Installer

This chapter describes installation and uninstallation using TIBCO Universal Installer.

Topics

- [Installing TIBCO Enterprise Message Service, page 16](#)
- [Uninstalling the Software, page 20](#)

Installing TIBCO Enterprise Message Service

If *TIBCO_HOME* does not exist on the machine, its location must be specified when installing TIBCO Enterprise Message Service. All subsequent TIBCO software will be installed under *TIBCO_HOME*.

Install TIBCO Enterprise Message Service using one of the following modes:

- [Install in GUI Mode on page 16](#)
- [Install in Console Mode on page 18](#)
- [Install in Silent Mode on page 19](#)



The TIBCO Universal Installer installs the .NET DLLs, *TIBCO.EMS*, *TIBCO.EMS.ADMIN*, and *TIBCO.EMS.UFO.DLL* in the global cache. Existing DLLs from a previous TIBCO EMS installation are overwritten. See [.NET DLL Installation on page 14](#) for more information.

Install in GUI Mode

The following procedure explains how to install TIBCO Enterprise Message Service in GUI mode.

1. Open the physical media or download the TIBCO Enterprise Message Service product package.
2. Extract the TIBCO EMS product archive file to a temporary directory.
3. Navigate to the temporary directory that contains the universal installer.
4. Run **TIBCOUniversalInstaller**.
5. The Welcome screen appears. Click **Next**.
6. The License Agreement screen appears. After reading through the license text, click **I accept the terms of the license agreement** and then click **Next**.
7. The Installation Profile Selection screen appears. This screen allows you to install the default features, or select specific features for installation.
 - To install all features displayed in the right panel, click **Next**.
 - To specify which features to install, click the check box next to **Customize installation**. Unselect the check boxes next to the features you do not want to install, and click **Next**.
8. The Installation Profile Selection screen appears. In this screen you choose the installation environment (also called *TIBCO_HOME* in the Installation Profile screen). An installation environment isolates product installations; a product

installed into an installation environment does not access components in other installation environment.

The installation environment consists of a name, description, and path. You can choose a new environment or an existing environment.



If there is a previous installation of a TIBCO product that did not use the TIBCO Universal Installer, then the Universal Installer will not detect the installation directory used by those older products. If you wish to use the existing location as the *TIBCO_HOME*, you must create a new *TIBCO_HOME* and choose the directory where the other products exist.

- **Create a New TIBCO_HOME** To install the product into a new installation environment, specify the following properties:
 - **Directory** The directory path into which the product is installed. Type a path or click **Browse** to specify the path or accept the default location.
 The path cannot contain special characters such as "*", "#", "?", ">", "<", "%", "&", "\$", "~" or "|". The path cannot be the same as the path of an existing environment.
 - **Name** Identifies the installation environment. The name cannot contain special characters such as "*", "?", ">", "<", ":", "|", "/", "\", or quotes (").
 The name is appended to the name of Windows services created by the installer and is a component of the path to the product in the Windows Start > All Programs menu.
- **Use an Existing TIBCO_HOME** To install the product into an existing installation environment, select the environment directory from the Environment drop-down list.

Click **Next**.

9. If a version of TIBCO Enterprise Message Service or related components have already been installed in the target directory, a warning message appears.
 If you wish to reinstall TIBCO Enterprise Message Service, click **Yes**. To cancel the installation, choose **No**.
10. The Configuration Directory screen appears. The configuration directory determines the location where TIBCO Enterprise Message Service stores user data, including the sample server configuration files. The default location is:
 - On UNIX systems, the user home directory. For example:
`$HOME/tibco`

- On Windows XP and Windows Server 2003, the APPDATA environment variable. For example:

`C:\Documents and Settings\username\Application Data\ENV_HOME`

The installer appends `\tibco\cfgmgt` to the end of the selected directory.

- On Windows 7, Windows Vista, and Windows Server 2008, the PROGRAMDATA environment variable. For example:

`C:\ProgramData\tibco`

Accept the default location, or click **Browse** to select a different location.

Click **Next**.

11. If you are installing on a Windows platform and are installing the Runtime component, the Server Service Startup Type screen appears.

- Click **Manual** to start the EMS server and multicast daemon manually. Click **Auto** to have Windows start the server and daemon automatically.

- Click **Browse** to locate and select a different server configuration file.

Click **Next**.

12. The installer prepares the components for installation. A pre-install summary screen appears. Click **Install**.

Click **Yes to All** to close any pop up windows that display during installation.

13. Click **Finish** to close the installer window.

Install in Console Mode

The following procedure explains how to install the software in console mode.

1. Open the physical media or download the TIBCO Enterprise Message Service product package.
2. Extract the TIBCO Enterprise Message Service product archive file to a temporary directory.
3. Using a console window, navigate to the temporary directory that contains the universal installer
4. Run the installer using this command line:
`TIBCOUniversalInstaller -console`
5. Complete the installation by responding to the console window prompts.

Install in Silent Mode

The following procedure explains how to install TIBCO Enterprise Message Service product in silent mode. The `TIBCOUniversalInstaller.silent` file is packaged in the directory that contains the universal installer. You must edit the file with information for your environment before launching the silent installation. The file includes comments that describe the installation properties you can set.

While you can use the `TIBCOUniversalInstaller.silent` file, it's good practice to copy the file to a different name and edit that file for the silent mode.

If errors occur during installation, they will be listed in the installation log file (see the `User_Home/.TIBCO` directory).

1. Open the physical media or download the TIBCO Enterprise Message Service product package.
2. Extract the TIBCO Enterprise Message Service product archive file to a temporary directory.
3. Using a console window, navigate to the temporary directory that contains the universal installer
4. Copy the `TIBCOUniversalInstaller.silent` file and rename the file.
5. Using a text editor, open the copied file and update the install location and features to install.
6. Run the installer using this command line:

```
TIBCOUniversalInstaller -silent -V responseFile="myfilename.silent"
```

If you are using the `TIBCOUniversalInstaller.silent` file (rather than a copy), you need not supply the file name and can use this command line:

```
TIBCOUniversalInstaller -silent.
```

A line similar to the following is written to the installer log file when installation completes:

```
Install, com.tibco.installer.util.TIBCOInstaller, dbg.Debug,
The installation has completed. Please check the log file for
additional information.
```

```
... Install, com.tibco.installer.util.TIBCOInstaller,
dbg.Debug, Executing Event:::OnEndInstall
```

Uninstalling the Software



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

Use the following procedure to uninstall TIBCO Enterprise Message Service.

1. Stop all TIBCO Enterprise Message Service processes.
2. Run the uninstaller:

Navigate to *TIBCO_HOME\tools\universal_installer* and run the **TIBCOUniversalInstaller** executable.

On Windows systems, you can also access the universal uninstall program from the Start menu, following the path **Programs > TIBCO > Uninstall**.

3. The TIBCO Installation Manager screen opens.
 - a. Select **Uninstall Products from Selected TIBCO Home Location**.
 - b. From the drop-down box, select the *TIBCO_HOME* location where TIBCO Enterprise Message Service is installed.
 - c. Click **Next**.
1. The Welcome screen appears. Click **Next**.
2. To uninstall only TIBCO Enterprise Message Service, click **Custom Uninstall**. To uninstall all TIBCO products in the specified *TIBCO_HOME* (installed using the universal installer), select **Typical Uninstall**. After making your choice, click **Next**.
3. If you selected Custom Uninstall, then in the next screen select the specific products to uninstall. The choices include only TIBCO products that you installed using the universal installer. Unselect the check box next to any products you do not want to uninstall, and click **Next**.
4. The Pre-Uninstall Summary screen appears. Click **Uninstall** to remove the listed products.
5. Click **Finish** to close the uninstaller window.

Chapter 4 **Installation FAQs and Troubleshooting**

This chapter lists answers to questions and potential issues.

Topics

- [Running Out of Disk Space, page 22](#)
- [DISPLAY Variable FAQ, page 23](#)

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> ./TIBCOUniversalInstaller-hpux-hppa.bin
```

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