

# **TIBCO ActiveMatrix<sup>®</sup> Adapter for Kenan/BP**

## **Installation**

*Software Release 6.0  
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# Preface

This document describes how to install TIBCO ActiveMatrix Adapter for Kenan/BP software.



**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

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- [Related Documentation, page viii](#)
- [Typographical Conventions, page x](#)
- [How to Contact TIBCO Support, page xii](#)

## Related Documentation

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This section lists documentation resources you may find useful.

### TIBCO ActiveMatrix Adapter for Kenan/BP Documentation

The following documents form the TIBCO ActiveMatrix Adapter for Kenan/BP documentation set:

- *TIBCO ActiveMatrix Adapter for Kenan/BP Concepts* Read this manual to gain an understanding of the product that you can apply to the various tasks you may undertake.
- *TIBCO ActiveMatrix Adapter for Kenan/BP Installation* Read this manual for instructions on site preparation and installation.
- *TIBCO ActiveMatrix Adapter for Kenan/BP Configuration and Deployment* Read this manual for instructions on creating, configuring, and deploying adapter projects.
- *TIBCO ActiveMatrix Adapter for Kenan/BP Examples* Read this manual to work through the examples provided with the adapter.
- *TIBCO ActiveMatrix Adapter for Kenan/BP 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.

### Other TIBCO Product Documentation

You may find it useful to read the documentation for the following TIBCO products. Note that only books that relate to adapters are listed. Each of the books is available from the doc directory in the product's installation area.

- TIBCO Designer™
- TIBCO Administrator™
- TIBCO ActiveMatrix BusinessWorks™
- TIBCO Rendezvous®
- TIBCO Enterprise Message Service™
- TIBCO Hawk®
- TIBCO Adapter™ SDK
- TIBCO Runtime Agent™

## Third-Party Documentation

You may also find it useful to read the following Kenan/BP documentation:

- *API TS Guide*
- *API TS Reference*




# Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
<i>TIBCO_HOME</i> <i>ENV_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>
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 foo process.</p>
<b>bold code font</b>	<p>Bold code font is used in the following ways:</p> <ul style="list-style-type: none"><li>• In procedures, to indicate what a user types. For example: Type <b>admin</b>.</li><li>• In large code samples, to indicate the parts of the sample that are of particular interest.</li><li>• In command syntax, to indicate the default parameter for a command. For example, if no parameter is specified, MyCommand is enabled: MyCommand [<b>enable</b>   disable]</li></ul>
<i>italic font</i>	<p>Italic font is used in the following ways:</p> <ul style="list-style-type: none"><li>• To indicate a document title. For example: See <i>TIBCO ActiveMatrix BusinessWorks Concepts</i>.</li><li>• To introduce new terms For example: A portal page may contain several portlets. <i>Portlets</i> are mini-applications that run in a portal.</li><li>• To indicate a variable in a command or code syntax that you must replace. For example: MyCommand <i>PathName</i></li></ul>

Table 1 General Typographical Conventions (Cont?)

Convention	Use
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>
	The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances.
	The tip icon indicates an idea that could be useful, for example, a way to apply the information provided in the current section to achieve a specific result.
	The warning icon indicates the potential for a damaging situation, for example, data loss or corruption if certain steps are taken or not taken.

## How to Contact TIBCO Support

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

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

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

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

<https://support.tibco.com>

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

## Chapter 1      **Introduction**

This chapter provides an overview of the installer, the installation registry, and the additional software required before you can install TIBCO ActiveMatrix Adapter for Kenan/BP.

### Topics

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- [Installer Overview, page 2](#)
- [Adapter Components and Additional TIBCO Software, page 6](#)
- [Pre-Installation Worksheets, page 8](#)

## Installer Overview

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This section introduces the adapter installer.

### Installing the Adapter

Before you install the adapter, read this chapter and fill out the Pre-Installation Worksheets.

Software, hardware, other prerequisites, and installation instructions for each platform are in the appropriate section of this document:

- [Chapter 2, Installing on Microsoft Windows Platforms](#)
- [Chapter 3, Installation on UNIX Platforms](#)

### Uninstalling the Adapter

The TIBCO Installation Manager is used to uninstall TIBCO products. It allows you to:

- Display installed products
- Display product components
- Display product dependencies and references
- Uninstall products and all references

To start the program:

- On Microsoft Windows:

Click **Start>All Programs>TIBCO>TIBCO Installation Manager**

- On UNIX:

`TIBCO_HOME/tibco/TibcoInstallationManager.bin`

The TIBCO Installation Manager displays all TIBCO software installed on your machine. Details about the selected TIBCO product are displayed in the right rows. Click the Uninstall button to remove the selected product. Note that some products cannot be installed from the utility. Instructions about uninstalling these products are listed in the uninstall window (after clicking the Uninstall button).

Click the TIBCO Installation Manager help button for information about using the program.

## Installer Mode

The installer allows you to run it 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. When you invoke the installer by double-clicking on the icon, GUI mode is used.

### Console Mode

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

### Silent Mode

Silent mode either installs using 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.

## Major, Minor and Patch Releases

Software from TIBCO uses three numbers to indicate whether the release is major, minor or a patch. For example, 5.0.0 indicates a major release, 5.1.0 indicates a minor release and 5.1.1 indicates a patch release.

- For a major or minor release, the installer prompts whether you want to upgrade, and informs you if incompatible products are on your system. If you proceed, the major or minor release is installed in a new directory that is named using the major or minor release version number.

For example, if you have installed the 5.3.0 release and are upgrading to a 6.0.0 release, the 6.0 release will be installed under the new 6.0 directory. This allows both the 6.0 and 5.3 releases to coexist on the same machine.

- The installer for a patch release performs an automatic upgrade. For example, the installer automatically upgrades TIBCO ActiveMatrix Adapter for Kenan/BP 5.3.0 to 5.3.1 by replacing the contents of the 5.3 directory.
- If you are upgrading the adapter or reinstalling a clean version of the software, you may uninstall the product first or allow the installer to perform the upgrade or reinstall action.
- If you are reinstalling over the same adapter version:
  - You are not prompted to supply the installation location. The software is automatically reinstalled where the previous version was installed.
  - If any files are currently locked (that is, in use), the installer marks the file for deletion in the installing location. After installation, the installer prompts you to reboot your system. You must reboot before using the software.

## Calculating Available Disk Space

The installer calculates the disk space required in the adapter's home directory for the selected components. This calculation is done before starting to copy files. The installer will proceed only if sufficient free disk space is available.

If the available disk space is consumed by another process during installation and there is not enough room to finish, the installer may fail and display a failure message.

You can avoid this by not running other processes during installation that consume disk space in the adapter's home directory.

## Installation Registry

The installer maintains an installation registry. (Note that the installer does not recognize TIBCO ActiveEnterprise 4.x products.) The registry location depends on the platform, as described below. The registry files have vpd as a prefix, which stands for Vital Product Database.



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

## Microsoft Windows Platforms

TIBCO ActiveEnterprise 5.x products maintain the installation registry in the *SystemDrive:\windows* folder. The following files represent the installation registry:

*SystemDrive:\windows\vpd.properties*

*SystemDrive:\windows\vpd.properties.tibco.systemName*

## 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:

*User\_Home\_Directory/vpd.properties*

*User\_Home\_Directory/vpd.properties.tibco.systemName*

On Solaris and HP-UX, if installation is performed by a super-user (root), the installation registry is maintained in the root user's home directory (which is /) as two vpd files.

## Installation History

The installer and uninstaller create a file called *TIBCOInstallationHistory.xml* in the same location where the installation registry is created. Each time an installation or uninstallation is performed, entries are appended to the file.

On Microsoft Windows:

*SystemDrive:\windows\TIBCOInstallationHistory.xml*

On UNIX: *Users\_Home\_Directory/TIBCOInstallationHistory.xml*

The file *TIBCOInstallationHistory.xml* contains the record of all installation and uninstallation activities of all TIBCO products, features and components.



Do not edit, modify, rename, move, or remove the *TIBCOInstallationHistory.xml* file.

# Adapter Components and Additional TIBCO Software

You can install the software on different machines and use them across the network. For example, you can use TIBCO Designer on one machine to configure a TIBCO ActiveMatrix Adapter for Kenan/BP adapter on another machine.

## Adapter Components

Table 2 describes the components of the adapter installation package.

Table 2 TIBCO ActiveMatrix Adapter Components

Component	Description
Runtime	<p>This process does the actual work of passing and converting data to and from the vendor application.</p> <p>Parameters of data exchanges are stored in projects created using the adapter palette and the design-time adapter.</p> <p>Note that the TIBCO ActiveMatrix Adapter for Kenan/BP runtime component is not installed on the Microsoft Windows platforms.</p>
Design time	<p>Adapter-specific GUI that is loaded in TIBCO Designer.</p> <p>This component includes the palette and samples that demonstrate how TIBCO ActiveMatrix Adapter for Kenan/BP interacts with TIBCO ActiveMatrix BusinessWorks.</p>
Documentation	<p>This component is required for context-sensitive help.</p>

## Required and Optional TIBCO Products

The TIBCO Runtime Agent must be installed before installing the adapter. Depending on your configuration, you may also need to install additional TIBCO products.

Table 3 describes the TIBCO Runtime Agent and the additional TIBCO products you may be installing. For the supported versions of the listed products, refer to *TIBCO ActiveMatrix Adapter for Kenan/BP readme.txt*.

Table 3 Required and Optional TIBCO Products

Product	Purpose
TIBCO Runtime Agent	<p>Required. TIBCO Runtime Agent supplies a number of TIBCO and third-party libraries used by the adapter and other TIBCO products both at design-time and runtime. This includes, for example, TIBCO Rendezvous software.</p> <p>You must install TIBCO Runtime Agent on each machine that hosts an adapter. TIBCO Runtime Agent must be installed before you install the adapter.</p>
TIBCO Administrator	<p>Required for deployment. TIBCO Administrator includes the following modules:</p> <ul style="list-style-type: none"> <li>---User Management. Management of authentication, roles and users, that is, connecting roles (groups) and users to access control lists (ACLs). This includes security for server-based projects at design-time and for deployed applications at runtime.</li> <li>---Resource Management. Monitoring of machines and of all running applications in a TIBCO administration domain. Alerts can be created, for example, to notify an administrator if the number of processes or disk usage exceed a certain number.</li> <li>---Application Management. Uploading of Enterprise Archive (EAR) files, creation, configuration, deployment, and monitoring of applications. This console is also used to start and stop applications.</li> </ul> <p>TIBCO Administrator is available as a separate installation and can be installed after installing the adapter.</p>
TIBCO ActiveMatrix BusinessWorks	<p>Optional. TIBCO ActiveMatrix BusinessWorks is a scalable, extensible, and easy-to-use integration platform that allows you to develop integration projects. TIBCO Adapters are typically part of integration projects created using TIBCO ActiveMatrix BusinessWorks.</p> <p>TIBCO ActiveMatrix BusinessWorks is available as a separate installation and can be installed after installing the adapter.</p>
TIBCO Enterprise Message Service	<p>Optional. TIBCO Enterprise Message Service allows you to use the Java Messaging Services (JMS) as the message transport for your adapter.</p> <p>TIBCO Enterprise Message Service is available as a separate installation and can be installed after the adapter is installed.</p>

# Pre-Installation Worksheets

The most time-consuming part of an adapter installation is the collection of environment information and parameters. This section helps you complete this process. It provides a checklist of parameters you should obtain from various system administrators within your organization before installing the adapter.

The information below is required during installation of TIBCO ActiveMatrix Adapter for Kenan/BP.

## Adapter Machine Information

Table 4 provides a checklist of parameters you should obtain from various system administrators within your organization before installing the adapter.

Table 4 Adapter Machine Information

Adapter Information	Description	Value for Your Machine
Hostname (Example: adapter1.tibco.com)	Name of the machine on which the adapter is being installed.	
IP address (Example: 192.168.12.12)	IP address of the machine on which the adapter is being installed.	
TIBCO home directory path	This is the directory where TIBCO Runtime Agent was installed. TIBCO Runtime Agent must be installed on each machine where the adapter will be installed.  (By default, this is C:\tibco on Microsoft Windows)	
Installer user account	Account to log on to the machine with and run the installer. This user must have write permission to the TIBCO home directory. (Example: administrator)	
Installer user password	Password for the installer user account above.	
Installer user domain (Windows only)	Network domain to which the user account above belongs. (Example: ENGR2)	

Table 4 Adapter Machine Information

Adapter Information	Description	Value for Your Machine
Adapter installation package	Obtain the correct TIBCO ActiveMatrix Adapter for Kenan/BP installation package. This is available on CD, FTP, network drive, or <a href="http://download.tibco.com">download.tibco.com</a> .	
Disk and path on which to install adapter (Example: /opt/tibco)		
How will machine be accessed	<input type="checkbox"/> directly <input type="checkbox"/> terminal server <input type="checkbox"/> xterm <input type="checkbox"/> telnet <input type="checkbox"/> other: .....	
How will installation files be transferred to machine	<input type="checkbox"/> CD-drive <input type="checkbox"/> internet download <input type="checkbox"/> FTP to machine <input type="checkbox"/> network disk mounting	

## Kenan/BP User Information

Obtain the following information for the account you will use to access the Kenan/FX Security Server.

Table 5 Kenan/BP User Information

Field Name	Field Description	Field Value
Username: (Example: arborsv)	Valid User ID to logon to the Kenan/FX Security Server.	
Password: (Example: csgfx)	Password to logon to the Kenan/FX Security Server.	

## Kenan/BP Client Software

Please specify where software for the Kenan/BP client can be found within your organization:

☐ It's already installed on the adapter machine.

Location on disk: .....

☐ Installation files are available via:

FTP (Server : ..... User : ..... Password: ..... )

Disk mount (full path: .....)

CD provided during install by (name/extension) : .....



It is not mandatory to have a Kenan/BP client to run the adapter.

## Kenan/BP Software Required before installing the Adapter

The Kenan/BP components given below need not be installed on the machine you intend to install the adapter. But these components are required for running the adapter. For the supported versions of the listed products, refer to *TIBCO ActiveMatrix Adapter for Kenan/BP readme.txt*.

- Kenan/BP
- Kenan/FX Middleware
- Kenan/BP Database
- Kenan/BP API-TS
- BEA Tuxedo
- JRE



Ensure that the prerequisite software for Kenan/BP contains the latest patches as specified in the Kenan/BP Software Product Description.

## Test Connectivity

If you install the Kenan/BP client, start it and ensure you can connect to the Kenan/BP server using the username and password that you were provided by your administrator.

## Chapter 2      **Installing on Microsoft Windows Platforms**

This chapter describes how to install TIBCO ActiveMatrix Adapter for Kenan/BP on the supported Microsoft Windows platforms.

### Topics

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- [Installation Prerequisites, page 12](#)
- [Installing the Adapter on Microsoft Windows, page 13](#)

## Installation Prerequisites

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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.

Product dependencies at install time are resolved at user level through the installation registry maintained at the user's home directory. See [Installation Registry on page 4](#) for more information.

The following is a list of prerequisites for installing the adapter on Microsoft Windows platforms.

- [Minimum Disk Space](#)
- [Required TIBCO Products](#)

### Minimum Disk Space

The installer requires 130 MB of free space in the temp directory. The entire package is extracted into a temp folder, typically:

`SystemDrive:\Temp` or

`SystemDrive:\Documents and Settings\user_name\Local Settings\Temp`

### Required TIBCO Products

Before you can install the adapter, you must install TIBCO Runtime Agent. If you use the typical TIBCO Runtime Agent installation, the installer places all of its libraries and other products required by the adapter into the TIBCO HOME directory, `C:\tibco`.

During adapter installation, the adapter installer checks for the availability of all required products. If any are not available, the installer immediately exits. When all products are available, you can proceed with the installation.

## Installing the Adapter on Microsoft Windows

You can either download the adapter package or install the package 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.

The installer checks your system for the installation home directory that was established when TIBCO Runtime Agent was installed. The adapter is installed under the installation home directory.

You must use the administrator account to install this product. If you do not have administrator privileges, the installer will exit. You must then log out of the system and log in as a user with the required privileges.

If installing from the network drive, make sure that the account used for installation has permission to access the network drive.

### Supported Platforms

The following table lists the platform-specific installation packages where *version\_number* is the Adapter release number. For example, the installation package name for TIBCO Adapter for Kenan/BP 6.0.0 on the Microsoft Windows 2003 platform is `TIB_adkenan-suite_6.0.0_win_x86.exe`.

Table 6 Supported platforms, Package Name, and Disk Space for Microsoft Windows

Platform	Package Name	Hardware Platform	Disk Space (MB)
Microsoft Windows Server 2003, 2008	TIB_adkenan-suite_6.0.0_	x86	130
Microsoft Windows XP Professional	win_x86.exe		
Microsoft Windows Vista			

## Installing the Adapter on 2003 Terminal Server

There are two modes in the Windows Terminal Server: *Execute* and *Install*. Users are logged on by default in the 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 *SystemDrive:\WINNT\*.



Windows Terminal Server must be running in remote admin mode, not application sharing mode. The adapter is not supported if it is installed on a machine that is using Windows Terminal Server in the application sharing mode.

The best way to install the adapter 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 the Adapter on Microsoft Windows

You can use any of the following modes to install TIBCO ActiveMatrix Adapter for Kenan/BP on Microsoft Windows platforms:

- [Installing Using GUI Mode](#)
- [Installing Using Console Mode](#)
- [Installing Using Silent Mode](#)
- [Installing Using a Response File \(or a Template File\)](#)

### Installing Using GUI Mode

GUI mode performs the installation in an interactive graphical interface. The installer prompts you for values specific to your environment. Execute the installation program by double clicking the executable file in the installation package.

## Installing Using Console Mode

Console mode allows you to install the software from a console window. The installer prompts you for values. When installing in console mode you can move through the installation process as shown:

- Enter Key = Moves forward in the installer
- 2 = Goes back to previous screen
- 3 = Cancels the Wizard and exits the installation or uninstallation
- 4 = Redisplays the current screen

Execute the installation program from a command window by typing the *installation\_package\_name* -a -is:javaconsole -console

## Installing Using Silent Mode

This mode installs the adapter in a command window without prompting you for any information during installation. It installs the adapter using default values. Execute the installation program from a command window by typing:

*installation\_package\_name* -a -silent

## Installing Using a Response File (or a Template File)

When installing the adapter in the console mode, the installer prompts you for information during installation and saves your answers in a response file. The response file can be used during subsequent installations to create another instance using the same values as the original installation either with or without prompting for changes.

- Generating a Response File

To install using Console mode and generate a response file, type the following in a command window:

```
installation_package_name -s -a -is:javaconsole -console  
-options-record responseFilepath
```



There is no space between -options and -record in the above command.

The response file does not record selections at the component level. It does record all other selections, such as which products you installed.

- Generating a Template File

You can generate a template file without installing the adapter. The template file is similar to a response file, but the values are not filled in. You can edit the template file to generate a response file.

To generate a template file, type the following at the command prompt:

```
installation_package_name -options-template templateFilePath
```



There is no space between `-options` and `-template` in the above command.

After generating a response or a template file, you can use it to install the adapter in silent mode or console mode.

- In silent mode, you are not prompted during installation. The adapter is installed using the values in the response file. Type the following in a command window:

```
installation_package_name -s -a -is:silent -silent -options  
responseFilePath
```

- In console mode, you are prompted for values during installation. The values in the response file are presented as suggested defaults. Type the following in a command window:

```
installation_package_name -a -options responseFilePath
```

## Chapter 3      **Installation on UNIX Platforms**

This chapter describes how to install TIBCO ActiveMatrix Adapter for Kenan/BP on UNIX platforms.

### Topics

---

- [Installation Prerequisites, page 18](#)
- [Installing TIBCO ActiveMatrix Adapter for Kenan/BP on UNIX, page 20](#)
- [Post-Installation, page 24](#)

## 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.

Product dependencies at install time are resolved at user level through the installation registry maintained at the user's home directory. See [Installation History on page 5](#) for more information.

The following is a list of prerequisites for installing the adapter on UNIX platforms.

- [Minimum Disk Space](#)
- [Required TIBCO Products](#)
- [Supported Kenan/BP Application](#)

### Minimum Disk Space

This section lists the installer disk space requirements in the temporary area and in the user's home directory.

#### Installer Disk Space Requirements in Temporary Area

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

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

- On Solaris, 210 MB of free disk space in `/var/tmp`
- On HP-UX, 500 MB of free disk space in `/var/tmp`
- On AIX, 300 MB of free disk space in `/var/tmp`

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:

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

where the `/new_tmp` directory has sufficient free disk space.

### Disk Space Requirement in User's Home Directory

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

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

### Required TIBCO Products

Before you can install the adapter, you must install the TIBCO Runtime Agent. If you use the Typical TIBCO Runtime Agent installation, the TIBCO Runtime Agent installer places all of its libraries and other products required by the adapter into the *TIBCO\_HOME* directory, which is the user's home directory.

During adapter installation, the adapter installer checks for the availability of all required products. If any are not available, the installer immediately exits. When all products are available, installation will proceed.

### Supported Kenan/BP Application

Before proceeding to the adapter installation, ensure that you can connect to the target application.

The adapter works with the following:

- Kenan/BP 11.7.2 on Solaris 8, Solaris 9, and HP-UX 11i (PA-RISC)
- Kenan/BP 12.0 on Solaris 10, HP-UX 11i(PA-RISC), HP-UX 11i(Itanium), and AIX 5.3

## Installing TIBCO ActiveMatrix Adapter for Kenan/BP on UNIX

You can either download the adapter package or install the package 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.

The installer checks your system for the installation home directory that was established when TIBCO Runtime Agent was installed. The adapter is installed under the installation home directory.

### Supported Platforms and Disk Space

The following table lists the platform-specific installation packages where *version\_number* is the Adapter release number. For example, the installation package name for TIBCO Adapter for Kenan/BP 6.0.0 on the AIX 5.3 is `TIB_adkenan-suite_6.0.0_aix52_power_java_kenan12.0_64.tar`.

Table 7 Supported UNIX Platforms, Package Name, and Disk Space

Platform	Kenan/BP Version	Package Name	Hardware	Disk Space (MB)
AIX 5.3	Kenan/BP 12.0	TIB_adkenan-suite_6.0.0_aix52_power_java_kenan12.0_64.tar	POWER	300
Solaris 8 Solaris 9	Kenan/BP 11.7.2	TIB_adkenan-suite_6.0.0_sol8_sparc_java_kenan11.7_64.tar	SPARC	210
Solaris 10	Kenan/BP 12.0	TIB_adkenan-suite_6.0.0_sol8_sparc_java_kenan12.0_64.tar	SPARC	210
HP-UX 11i	Kenan/BP 11.7.2	TIB_adkenan-suite_6.0.0_hpux111_hppa_java_kenan11.7_64.tar	PA-RISC	500
HP-UX 11i	Kenan/BP 12.0	TIB_adkenan-suite_6.0.0_hpux111_hppa_java_kenan12.0_64.tar	PA-RISC	500
HP-UX 11i	Kenan/BP 12.0	TIB_adkenan-suite_6.0.0_hpux112_ia64_java_kenan12.0_64.tar	Itanium	500

## Installing on AIX 5.3

Your Tuxedo 9.0 software on AIX platforms should support JNI, which is required for the Kenan/BP API-TS connection. A sample installation procedure is provided below to patch your Tuxedo software for the JNI support. Contact your Tuxedo provider to confirm if such patch is required and obtain the installation steps and required source files (libbuft.im, libbuft.ex). The sample installation procedure is as follows:

1. Enter `$TUXDIR/lib`.
2. Backup the `libbuft.so` file.
3. Copy the `libbuft.im` and `libbuft.ex` files to the `$TUXDIR/lib` directory.
4. Customize the `libbuft.im` file. Use `#!/libtux.so` for a full installation, otherwise change it to `#!/libwsc.so`.
5. Build the `libbuft.so` file:
  - 32-bit
 

```
$ cc -brtl -D__XCOFF32__ -I$TUXDIR/include -c tmtypesw.c
$ ld -bM:SRE -T512 -H512 -brtl -bE:libbuft.ex -bI:libbuft.im
-lc tmtypesw.o -o libbuft.so
```
  - 64-bit
 

```
$ export OBJECT_MODE=64
$ cc -brtl -q64 -D__XCOFF64__ -I$TUXDIR/include -c tmtypesw.c
$ ld -bM:SRE -T512 -H512 -brtl -bE:libbuft.ex -bI:libbuft.im
-lc -bnoentry -berok tmtypesw.o -o libbuft.so
```

If the `cc` compiler can not compile the file, use the `xlc` compiler.

## Installing the Adapter

You can use any of the following modes to install the adapter. Before proceeding with the installation, untar the installation package.

- [Installing Using GUI Mode](#)
- [Installing Using Console Mode](#)
- [Installing Using Silent Mode with Default Values](#)
- [Installing Using a Response File \(or a Template File\)](#)

### Installing Using GUI Mode

A window environment such as CDE (for example, X Windows) is required to run the installer in GUI mode.

GUI mode performs the installation in an interactive graphical interface. The installer prompts you for values specific to your environment. Execute the installation program by typing the following in a terminal window:

```
% ./installation_package_name
```

### Installing Using Console Mode

Console mode allows you to install the software in a console window. The installer prompts you for values. When installing in console mode you can move through the installation process as shown:

- Enter Key = Moves forward in the installer
- 2 = Goes back to previous screen
- 3 = Cancels the Wizard and exits the installation or uninstallation
- 4 = Redisplays the current screen

Execute the installation program by typing the following in a terminal window:

```
% ./installation_package_name -is:javaconsole -console
```

### Installing Using Silent Mode with Default Values

This mode installs the adapter in a terminal window without prompting you for any information during installation. It installs the adapter using default values. Execute the installation program by typing the following in a terminal window:

```
% ./installation_package_name -silent
```

### Installing Using a Response File (or a Template File)

This installation is performed in a console window or a terminal window. The installer prompts you for information during installation and saves your answers in a response file. The response file can be used during subsequent installations to create another instance using the same values as the original installation, either with or without prompting for changes.

- Generating a Response File

To install the software in a terminal window and generate a response file, type the following in a terminal window:

```
% ./installation_package_name -options-record responseFilepath
```



There is no space between `-options` and `-record` in the above command.

The response file does not record selections at the component level. It does record all other selections, such as which products you installed.

- Generating a Template File

You can generate a template file without installing the adapter. The template file is similar to a response file, but the values are not filled in. You can edit the template file to generate a response file.

To generate a template file, type the following at the command prompt:

```
installation_package_name -options-template templateFilePath
```



There is no space between `-options` and `-template` in the above command.

After generating a response or a template file, you can use it to install the adapter in silent mode or interactive mode.

- In silent mode, you are not prompted for values; the adapter is installed using the values in the response file. Type the following in a terminal window:

```
% ./installation_package_name -silent -options responseFilePath
```

- In interactive mode, you are prompted for values during installation. The values in the response file are presented as suggested defaults. To install using a response file in interactive mode, type the following in a terminal window:

```
% ./installation_package_name -options responseFilePath
```

## Combining Options

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

```
% ./installation_package_name -silent -options responseFileName
```

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

```
% ./installation_package_name -is:javaconsole -console  
-options-record responseFileName
```

## Post-Installation

---

After installation, perform the following:

- [Setting Directory Permissions](#)
- [Getting the Encoding](#)

### Setting Directory Permissions

Depending on whether a repository server is used, and whether TIBCO Administrator is used to set access permissions, users may need a TIBCO Administrator account. See your TIBCO Administrator guide for details.

Make sure that all adapter users have read, write, and execute permissions for the following directories where the adapter files and configuration information is stored:

```
$TIBCO_HOME/adapter/adkenan/version_number/ledger  
$TIBCO_HOME/adapter/adkenan/version_number/bin  
$TIBCO_HOME/adapter/adkenan/version_number/logs  
$TIBCO_HOME/tra/version_number/logs  
$TIBCO_HOME/logs
```

For example, if you installed the adapter in `/opt/tibco`, you can make these directories writable for all other users by executing the following commands:

```
% chmod a+w /opt/tibco/adapter/adkenan/version_number/bin  
% chmod a+w /opt/tibco/adapter/adkenan/version_number/logs  
% chmod a+w /opt/tibco/adapter/adkenan/version_number/ledger  
% chmod a+w /opt/tibco/tra/version_number/logs
```

### Getting the Encoding

Get the encoding used in Kenan/BP deployment from the Kenan/BP application administrator. This encoding will be used later in the adapter configuration.

## Appendix A    **Installation FAQs and Troubleshooting**

This chapter lists some common errors along with their causes and solutions.

### Topics

---

- [Frequently Asked Questions, page 26](#)
- [Running Out of Disk Space, page 28](#)
- [Installation Error on HP-UX 11.00 64 bit Platform, page 29](#)
- [Cannot Install the Adapter, page 30](#)
- [Configuring TIBCO Hawk, page 31](#)

## Frequently Asked Questions

---

### Where is the installation log file located?

Install and uninstall log files are created in the `TIBCO_HOME\log` directory.

### What should I do, if JVM crashes when I run the installer?

The installer first extracts the bundled JVM into a temporary area and then uses it to launch itself. If for some reason, the JVM crashes, you could still run the installer using another JVM, preferably JVM 1.3.1 or higher. The syntax is:

```
installation_package_name -is:javahome C:\j2sdk1.4.0
installation_package_name -is:javahome /opt/jre142
```

The `javahome` directory must contain `bin/java.exe` or `bin/java`.

The installer will use the externally supplied JRE to launch itself.

### Will the installer recognize a 3.x or 4.x installation?

TIBCO products follow a three digit release numbering scheme:

Major.Minor.Maintenance

Product releases that differ in either Major or Minor numbers will be a separate installation, and will not recognize the old installation. In this case, 5.0 is a major release and hence will not recognize either 3.x or 4.x product installations.

### Why and how should I set the DISPLAY variable on UNIX platforms for GUI mode?

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 HPUX itaska 11.00
User:
Password:
itaska> export DISPLAY=alaska:0.0 # set display on alaska
itaska> installation_package_name

```

### What is `uninst2` directory?

If the original uninstall directory is in use at uninstall time, it cannot be removed by the installer program. The installer then creates a second uninstall directory for the second installation. To remove the second installation, you must invoke the uninstall program from the second uninstall directory. The original uninstall directory can also be manually removed, if empty.

## 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, the installer may fail and will then give a failure message.

### Resolution

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

## Installation Error on HP-UX 11.00 64 bit Platform

---

### Error message

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 systems and HP-UX 11.11 (or 11.i) systems.

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.

### Error Message

While 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.

## Cannot Install the Adapter

---

On HP-UX and AIX platforms, even though the correct version of TIBCO Runtime Agent version is already installed on the system, installation of an adapter that depends on TIBCO Runtime Agent may fail in the dependency resolution.

The TIBCO product installer maintains the registry information in the `vpd.properties.tibco.systemName` file. The value for *systemName* is determined by `InetAddress.getLocalHost().getHostName()`. However, the method `getHostName()`, returns different values based on the JRE versions used. For example, on AIX, JRE 1.3.1 returns only *systemName*, whereas JRE 1.4.2 returns *systemName.domainName*. Because of this, the installer is not able to load the correct registry file.

### Resolution

On Unix platforms, the installer registry file `vpd.properties.tibco.systemName` is located in the user's home directory.

Case 1: If the `vpd.properties.tibco.systemName` file exists:

```
$ cd user's_home_directory
$ ln -s vpd.properties.tibco.systemName
      vpd.properties.tibco.systemName.domainName
```

For example:

```
$ cd ~
$ ln -s vpd.properties.tibco.upside
vpd.properties.tibco.upside.tibco.com
```

where *upside* is *systemName*, and *tibco.com* is *domainName*

Case 2: If the `vpd.properties.tibco.systemName.domainName` file exists:

```
$ cd user's_home_directory
$ ln -s vpd.properties.tibco.systemName.domainName
vpd.properties.tibco.systemName
```

For example:

```
$ cd ~
$ ln -s vpd.properties.tibco.upside.tibco.com
vpd.properties.tibco.upside
```

where *upside* is *systemName*, and *tibco.com* is *domainName*.

## Configuring TIBCO Hawk

---

### Problem Description

TIBCO Runtime Agent includes the TIBCO Hawk Agent only. If you install the full TIBCO Hawk package after installing TIBCO Runtime Agent and do not have a Java Runtime Environment (other than the TIBCO JRE) installed, the TIBCO Hawk Configuration tool is unable to determine the Java home location and the JVM executable. The TIBCO Hawk services will not start correctly and you will be unable to start the TIBCO Hawk Display.

### Resolution

1. Start the TIBCO Hawk Configuration tool. For example, on Microsoft Windows:  
**Start>TIBCO>TIBCO Hawk>Hawk Configuration**
2. Under the General tab, click **Advanced**.
3. In the Java Home Directory field, provide the path to Java. For example:  
**C:\tibco\jre\1.5.0**
4. In the JVM Executable field, provide the JVM executable. For example:  
**java.exe**

The services will start properly and TIBCO Hawk Display will run.



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