

# **TIBCO ActiveMatrix BusinessWorks™**

## **Installation**

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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 file for the availability of this software version on a specific operating system platform.**

This preface gives some information on the TIBCO ActiveMatrix BusinessWorks documentation set, related documentation, and on conventions used in TIBCO manuals.

## Topics

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- [Changes from the Previous Release of this Guide, page vi](#)
- [Related Documentation, page vii](#)
- [Typographical Conventions, page ix](#)
- [Connecting with TIBCO Resources, page xi](#)

## Changes from the Previous Release of this Guide

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

## Related Documentation

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This section lists documentation resources you may find useful.

### TIBCO ActiveMatrix BusinessWorks Documentation

The following documents form the TIBCO ActiveMatrix BusinessWorks documentation set:

- *TIBCO ActiveMatrix BusinessWorks Concepts* Read this manual before reading any other manual in the documentation set. This manual describes terminology and concepts of TIBCO ActiveMatrix BusinessWorks, and the other manuals in the documentation set assume you are familiar with the information in this manual.
- *TIBCO ActiveMatrix BusinessWorks Getting Started* This manual steps you through a very simple example of designing, deploying, and monitoring a TIBCO ActiveMatrix BusinessWorks process.
- *TIBCO ActiveMatrix BusinessWorks Process Design Guide* This manual describes how to create, edit, and test business processes using TIBCO ActiveMatrix BusinessWorks.
- *TIBCO ActiveMatrix BusinessWorks Palette Reference* This manual describes each of the palettes available in TIBCO ActiveMatrix BusinessWorks.
- *TIBCO ActiveMatrix BusinessWorks Administration* This manual describes how to use TIBCO Administrator to deploy, manage, and monitor TIBCO ActiveMatrix BusinessWorks processes.
- *TIBCO ActiveMatrix BusinessWorks Installation* Read this manual for information on installing one or more components of TIBCO ActiveMatrix BusinessWorks and setting up a TIBCO ActiveMatrix BusinessWorks domain.
- *TIBCO ActiveMatrix BusinessWorks Error Codes* This manual describes errors returned by TIBCO ActiveMatrix BusinessWorks.
- *TIBCO ActiveMatrix BusinessWorks 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

TIBCO ActiveMatrix BusinessWorks is used with other products. You may find it useful to read the documentation for the following TIBCO products:

- TIBCO Designer™ software: TIBCO Designer is an easy to use graphical user interface for design-time configuration of TIBCO applications. TIBCO Designer includes online help for each palette.
- TIBCO Administrator™ software: TIBCO Administrator is the monitoring and managing interface for new-generation TIBCO products such as TIBCO ActiveMatrix BusinessWorks.
- TIBCO Adapter software
- Third-Party Documentation






## Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
	<p>TIBCO products are installed into an installation environment. A product installed into an installation environment does not access components in other installation environments. Incompatible products and multiple instances of the same product must be installed into different installation environments.</p> <p>An installation environment consists of the following properties:</p>
<i>ENV_NAME</i>	<ul style="list-style-type: none"> <li>• <b>Name</b> Identifies the installation environment. This name is referenced in documentation as <i>ENV_NAME</i>. On Microsoft Windows, the name is appended to the name of Windows services created by the installer and is a component of the path to the product shortcut in the Windows Start &gt; All Programs menu.</li> </ul>
<i>TIBCO_HOME</i>	<ul style="list-style-type: none"> <li>• <b>Path</b> The folder into which the product is installed. This folder is referenced in documentation as <i>TIBCO_HOME</i>.</li> </ul>
<i>BW_HOME</i>	<p>TIBCO ActiveMatrix BusinessWorks installs into a directory within a <i>TIBCO_HOME</i>. This directory is referenced in documentation as <i>BW_HOME</i>. The default value of <i>BW_HOME</i> depends on the operating system. For example on Windows systems, the default value is C:\tibco\bw\5.11.</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>

Table 1 General Typographical Conventions (Cont'd)

Convention	Use
<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 <i>portlets</i>. Portlets 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: <i>MyCommand pathname</i></li></ul>
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>
	<p>The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances.</p>
	<p>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.</p>
	<p>The warning icon indicates the potential for a damaging situation, for example, data loss or corruption if certain steps are taken or not taken.</p>

## Connecting with TIBCO Resources

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### How to Join TIBCOCommunity

TIBCOCommunity is an online destination for TIBCO customers, partners, and resident experts—a place to share and access the collective experience of the TIBCO community. TIBCOCommunity offers forums, blogs, and access to a variety of resources. To register, go to <http://www.tibcommunity.com>.

### How to Access All TIBCO Documentation

After you join TIBCOCommunity, you can access the documentation for all supported product versions here:

<http://docs.tibco.com/TibcoDoc>

### How to Contact TIBCO Support

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.



# Installing TIBCO ActiveMatrix BusinessWorks

This document explains how to install TIBCO ActiveMatrix BusinessWorks on Microsoft Windows and UNIX systems.

## Topics

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- [Installer Overview, page 2](#)
- [Required and Optional TIBCO Products, page 5](#)
- [Installing on Microsoft Windows, page 7](#)
- [Installing on UNIX Systems, page 10](#)

## Installer Overview

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The 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. 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.

## TIBCO Universal Installer

TIBCO ActiveMatrix BusinessWorks is installed with TIBCO Universal Installer.

When installing TIBCO ActiveMatrix BusinessWorks, you should always use the same `TIBCO_HOME` directory where TIBCO Runtime Agent is installed. This is because for backward compatibility the old installation registry (`vpd.properties`) is still utilized and will be shared by all `TIBCO_HOME`s created by the universal installer.

## Upgrading TIBCO ActiveMatrix BusinessWorks

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, 5.3.0 indicates a minor release and 5.3.3 indicates a patch release. The installer for a patch release performs an automatic upgrade. For example, the installer automatically upgrades TIBCO ActiveMatrix BusinessWorks 5.3.0 to 5.3.1 by overwriting the contents of the 5.3 directory.

For a major and minor release, the installer prompts whether you wish to upgrade, and informs you if incompatible products are on your system. If you proceed, major or minor releases are installed under a new directory that is named using the major or minor release numbers.

For example, if you have installed the 5.3.0 release and are upgrading to a 5.4.0 minor release, it will be installed under the 5.4 directory. This allows both the 5.3 and 5.4 releases to coexist on the same machine.

If you are upgrading TIBCO ActiveMatrix BusinessWorks, or reinstalling a clean version of the software, you may uninstall the product first or allow the installer to perform the upgrade or reinstall.

Note that, if you are reinstalling over the same 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 install location. After installation, the installer prompts you to reboot your system. You must reboot before using the software.

## Uninstalling TIBCO ActiveMatrix BusinessWorks

If another product is dependent on the product you wish to uninstall, you are informed that you must uninstall the other product first.

### Microsoft Windows

Navigate to the `TIBCO_HOME/_uninstall` folder and follow the steps written in `README_UNINSTALL.txt`.

### UNIX Systems

Navigate to the `TIBCO_HOME/tools/universal_installer` and follow the steps mentioned in `README_UNINSTALL.txt`.

### 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, 75 MB of free disk space in `/var/tmp`
- On HP-UX, 85 MB of free disk space in `/var/tmp`
- On AIX, 75 MB of free disk space in `/tmp`
- On Linux, 75 MB of free disk space in `/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:

```
<install_package_name>.bin -is:tempdir /new_tmp
```

where `/new_tmp` 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 vpd files.

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



## Required and Optional TIBCO Products

Depending on the tasks you wish to perform, you must install one or more other TIBCO products. The next table describes required and optional products and their purpose.

*Table 2 Required and Optional TIBCO Products*

Software	Description
<b>TIBCO Software</b> The software products below are distributed and installed separately from this product. See the readme file for the supported versions.	
TIBCO Rendezvous	Required. TIBCO Rendezvous must be installed before installing TIBCO Runtime Agent.
TIBCO Runtime Agent	Required. TIBCO Runtime Agent supplies a number of TIBCO and third-party libraries used by TIBCO ActiveMatrix BusinessWorks and other TIBCO products both at design-time and runtime. This includes, for example, TIBCO Rendezvous software.  You must install TIBCO Runtime Agent on each machine that hosts a TIBCO ActiveMatrix BusinessWorks process engine. TIBCO Runtime Agent must be installed before you install TIBCO ActiveMatrix BusinessWorks.
TIBCO Designer	Required. TIBCO Designer is an easy to use graphical user interface for design-time configuration of TIBCO ActiveMatrix BusinessWorks.  TIBCO Designer is installed as part of the TIBCO Runtime Agent installation.

Software	Description
TIBCO Administrator	<p>Required. TIBCO Administrator is available in two editions, Repository Edition and Enterprise Edition. The Enterprise Edition is required for TIBCO ActiveMatrix BusinessWorks. 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 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 TIBCO ActiveMatrix BusinessWorks.</p>
TIBCO Enterprise Message Service	<p>Optional. TIBCO Enterprise Message Service (EMS) allows you to send messages from your applications in a format that conforms to the Java Messaging Service (JMS) specification. It also provides a reliable delivery mode and a no-acknowledge acknowledgement mode.</p> <p>TIBCO Enterprise Message Service is available as a separate installation and can be installed after TIBCO BusinessWorks is installed.</p>

## Installing on Microsoft Windows

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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.

### Supported Platforms

See the TIBCO ActiveMatrix BusinessWorks readme file for a list of supported platforms.

### TIBCO Runtime Agent Installation Before TIBCO ActiveMatrix BusinessWorks

Before you can install TIBCO ActiveMatrix BusinessWorks, you must install TIBCO Runtime Agent. If you select the Typical option during installation, the installer places all libraries and other products required by TIBCO ActiveMatrix BusinessWorks into the TIBCO HOME directory.

During installation, the installer checks for the availability of all dependent products in the target system. If any of the dependencies are not available, the installer immediately exits. Otherwise installation proceeds.

#### Installer Account

You must have administrator privileges for the machine on which TIBCO ActiveMatrix BusinessWorks is installed.

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 the privileges to your account.

#### Installing from Network Drive

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.

### Installing TIBCO ActiveMatrix BusinessWorks on Microsoft Windows

You can either download the TIBCO Runtime Agent 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.

You can install using either `TIBCOUniversalInstaller.exe` or `TIBCOUniversalInstaller.cmd`.

- 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 `c:\tibco`.

Use one of the following modes to install TIBCO ActiveMatrix BusinessWorks.

### Install Using GUI Mode

To install TIBCO ActiveMatrix BusinessWorks in GUI mode:

1. Open the physical media or download the ActiveMatrix BusinessWorks package.
2. Extract the TIBCO ActiveMatrix BusinessWorks archive file to a temporary directory.
3. Navigate to the temporary directory.
4. Run `TIBCOUniversalInstaller.exe`. You can do so in one of the following ways:
  - Double-click the installer icon.
  - On the command prompt, provide the absolute path of the installer file without specifying any options. The installer defaults to GUI mode.
5. Click the **Next** button on the Welcome dialog.
6. Read through the license text when the License Agreement dialog appears, select the **I Accept The Terms of The License Agreement** radio button and then click the **Next** button.
7. Select an installation profile on the left or check the Customize Installation checkbox and check the checkboxes next to the features to install on the right.
8. Click the **Next** button. The TIBCO Installation Home dialog displays.
 

Use an existing `TIBCO_HOME` to install the product into an existing installation environment or select the environment from the environment drop-down list where TIBCO Runtime Agent is installed.
9. Click **Next**. Verify the list of products selected for install in the Pre-Install Summary dialog.
10. The Post-Install Summary dialog appears. This dialog summarizes the installation process. Click **Finish** to complete the installation process and close the installer window.

## Install Using Console Mode

Console mode allows you to install the software in a non-windows environment. The installer will prompt you for values. Type the following at the command prompt:

```
TIBCOUniversalInstaller.exe -console
```

When running in console mode you can move through the installation process as described next:

```
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
```

## Install Using Silent Mode

The following procedure explains how to install a TIBCO ActiveMatrix BusinessWorks product in silent mode. It installs TIBCO ActiveMatrix BusinessWorks using default values. The

TIBCOUniversalInstaller-BW\_<version>.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-BW\_<version>.silent file, it is a good practice to copy the file to a different name and edit that file for the silent install.

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 ActiveMatrix BusinessWorks product package.
2. Extract the TIBCO ActiveMatrix BusinessWorks 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-BW\_<version>.silent file and rename the copy.
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.cmd -silent -V
responseFile="myfilename.silent"
```

## Installing on UNIX Systems

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### Supported Platforms

See the TIBCO ActiveMatrix BusinessWorks readme file for a list of supported platforms.

See [Installer Disk Space Requirements in Temporary Area on page 4](#) for additional disk space requirements.

### TIBCO Runtime Agent Installation Before TIBCO ActiveMatrix BusinessWorks

Before you can install TIBCO ActiveMatrix BusinessWorks, you must install TIBCO Runtime Agent. If you choose the Typical option during installation, the installer places all libraries and other products required by TIBCO ActiveMatrix BusinessWorks into the TIBCO HOME directory.

### Installer Account

You must have administrator privileges for the machine on which TIBCO ActiveMatrix BusinessWorks is installed. 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 the 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 log file `tibco_universal_installer.timestamp.username_install.log`, is written to the `User_Home\TIBCO\install_timestamp` directory. For example, on Windows the installer log is written to the `C:\Documents and Settings\user-name\TIBCO\install_timestamp` directory. The installer log file captures the following information:

- Installation environment details such as user who invoked the installer, hostname, java home in the environment, Operating System details, etc.
- List of assemblies installed.

## Windows Environment

A window environment such as CDE (that is, X Windows) is required to run the installer in GUI mode. It is not required for a console installation.

## Installing TIBCO ActiveMatrix BusinessWorks on UNIX

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 root users, the default installation directory is `/opt/tibco`.
- For non-root users, the default installation directory is `/<myhome>/tibco`, where `<myhome>` is the home directory of the user.
- If installing TIBCO ActiveMatrix BusinessWorks on AIX, use a non-root user account.

Use one of the following modes to install the software. The examples assume you are installing TIBCO ActiveMatrix BusinessWorks on Solaris 2.8.

### Install Using GUI Mode

GUI Mode allows you input values in panels. Type the following in a terminal window:

```
TIBCOUniversalInstaller-sol.bin
```

### Install Using Console Mode

Console mode allows you to install the software in a non-windows environment. The installer prompts you for values. Type the following in a terminal window:

```
TIBCOUniversalInstaller-sol.bin -is:javaconsole -console
```

When running in console mode, you can move through the installation process as described next:

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

## Install Using Silent Mode with Default Values

The following procedure explains how to install a TIBCO ActiveMatrix BusinessWorks 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 is good practice to copy the file to a different name and edit that file for the silent install.

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 ActiveMatrix BusinessWorks product package.
2. Extract the TIBCO ActiveMatrix BusinessWorks 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-BW_<version>.silent` file and rename the copy.
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.bin -silent -V
responseFile="myfilename.silent"
```

## Post Installation

All TIBCO ActiveMatrix BusinessWorks users must have read, write, and execute permissions for the following directories:

```
$TIBCO_HOME/bw/5.11/bin
$TIBCO_HOME/bw/5.11/bin/logs
$TIBCO_HOME/tra/5.8/logs
```

For example, if TIBCO ActiveMatrix BusinessWorks has been installed in `/opt/tibco`, the user who installed TIBCO ActiveMatrix BusinessWorks should execute the following commands:

```
% chmod 777 /opt/tibco/bw/5.11/bin/
```



```
% chmod 777 /opt/tibco/bw/5.11/bin/logs  
% chmod 777 /opt/tibco/tra/5.8/logs
```

In addition, the palettes directory (`$TIBCO_HOME/bw/5.11/lib/palettes`) must be writable by all users who will use TIBCO Designer. Users must have write permission for this directory to be able to use the Java activity's Compile button.

Alternatively, change the Java activity's compilation directory by changing the value of `java.property.javaCode` in the `.tra` file that is used to start TIBCO ActiveMatrix BusinessWorks (`designer.tra` for the TIBCO Designer GUI or the appropriate `.tra` file for the engine if running from a deployment).

