



TIBCO ActiveMatrix BusinessWorks™

Installation

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Installer Overview

The installer enables you to run in three modes. Each mode is supported on all platforms.

- GUI mode
- Console mode
- Silent mode

GUI Mode

In GUI mode, the installer presents panels that enable you to make choices about product selection, product location, and so on. When you invoke the installer by double-clicking the icon, GUI mode is used.

Console Mode

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

Installation continues in one of the following ways:

- 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 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 is shared by all *TIBCO_HOMES* created by the universal installer.

Upgrading ActiveMatrix BusinessWorks

TIBCO Software 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 ActiveMatrix BusinessWorks 5.3.0 to ActiveMatrix BusinessWorks 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 ActiveMatrix BusinessWorks 5.3.0 release and are upgrading to ActiveMatrix BusinessWorks 5.4.0 minor release, it is 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 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.

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

Install one or more other TIBCO products, depending on the tasks you want to perform. The following table describes the required and optional products and their purpose.

Required and Optional TIBCO Products

Software	Description
TIBCO Software	
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 TRA™.
TIBCO Runtime Agent™	<p>Required. TRA supplies a number of TIBCO and third-party libraries used by ActiveMatrix BusinessWorks and other TIBCO products both at design-time and runtime. This includes, for example, TIBCO Rendezvous software.</p> <p>You must install TRA on each machine that hosts a ActiveMatrix BusinessWorks process engine. TRA must be installed before you install ActiveMatrix BusinessWorks.</p>
TIBCO Designer™	<p>Required. TIBCO Designer is an easy to use graphical user interface for design-time configuration of ActiveMatrix BusinessWorks.</p> <p>TIBCO Designer is installed as part of the TRA installation.</p>
TIBCO Administrator	<p>Required. TIBCO Administrator is available in two editions, Repository Edition and Enterprise Edition. The Enterprise Edition is required for ActiveMatrix BusinessWorks. Administrator includes the following modules:</p> <ul style="list-style-type: none"> • 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. • Resource Management. Monitoring of machines and of all running

Software	Description
	<p>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.</p> <ul style="list-style-type: none">• 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. <p>TIBCO Administrator is available as a separate installation and can be installed after installing ActiveMatrix BusinessWorks.</p>
TIBCO Enterprise Message Service	<p>Optional. TIBCO Enterprise Message Service (EMS) enables 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 ActiveMatrix BusinessWorks is installed.</p>

Installing on Microsoft Windows

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

For a list of supported platforms, see the ActiveMatrix BusinessWorks readme file.

TRA Installation before ActiveMatrix BusinessWorks

Before you install ActiveMatrix BusinessWorks, you must install TRA. If you select the **Typical** option during installation, the installer places all libraries and other products required by 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 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 ActiveMatrix BusinessWorks on Microsoft Windows

You can either download the TRA 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 ActiveMatrix BusinessWorks.

Install Using GUI Mode

To install ActiveMatrix BusinessWorks in GUI mode:

1. Open the physical media or download the ActiveMatrix BusinessWorks package.
2. Extract the 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:
 - a. Double-click the installer icon.

- b. On the command prompt, provide the absolute path of the installer file without specifying any options. The installer defaults to GUI mode.
5. Click **Next** 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 **Next**.
7. The **TIBCO Installation Home** dialog is displayed.
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 TRA is installed.
8. Select an installation profile on the left or select the **Customize Installation** check box and select the check boxes next to the features to install on the right.
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

You can use the Console mode to install the software in a non-windows environment. The installer prompts 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 ActiveMatrix BusinessWorks product in Silent mode. It installs 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.

i Note: 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 are listed in the installation log file (see the *User_Home/.TIBCO* directory).

To install ActiveMatrix BusinessWorks in the Silent mode:

Procedure

1. Open the physical media or download the ActiveMatrix BusinessWorks product package.
2. Extract the 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. To implement License Enforcement feature, add an entry for the license URL in the `TIBCOUniversalInstaller-BW_<version>.silent` file of ActiveMatrix BusinessWorks 5.16.1 in one of the following ways as follows:-

```
<entry key="license.url">http://<full remote server url>/entry>
```

OR

```
<entry key="license.url">local file directory path</entry>
```
7. Run the installer using this command line:

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

Installing on UNIX Systems

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

For a list of supported platforms, see the ActiveMatrix BusinessWorks readme file .

For additional disk space requirements, see [Installer Disk Space Requirements in Temporary Area](#).

TRA Installation before ActiveMatrix BusinessWorks

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

Installer Account

You must have administrator privileges for the machine on which 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, and so on.
- List of assemblies installed.

Windows Environment

A windows 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 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 is 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 ActiveMatrix BusinessWorks on AIX, use a non-root user account.

Use one of the following modes to install the software. It is assumed you are installing ActiveMatrix BusinessWorks on Solaris 5.10

Install Using GUI Mode

GUI Mode enables you to enter input values in the 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 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 recommended to copy the file to a different name and edit that file for the silent install.

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

To install ActiveMatrix BusinessWorks in the Silent mode with Default values:

Procedure

1. Open the physical media or download the ActiveMatrix BusinessWorks product package.
2. Extract the 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. To implement License Enforcement feature, add an entry for the license URL in the `TIBCOUniversalInstaller-BW_<version>.silent` file of ActiveMatrix BusinessWorks 5.16.1 in one of the following ways as follows:-
`<entry key="license.url">http://<full remote server url>/entry>`
 OR
`<entry key="license.url">local file directory path</entry>`
7. Run the installer using this command line:

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

Postinstallation

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

```
$TIBCO_HOME/bw/5.12/bin
$TIBCO_HOME/bw/5.12/bin/logs
$TIBCO_HOME/tra/5.9/logs
```

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

```
% chmod 777 /opt/tibco/bw/5.12/bin/
% chmod 777 /opt/tibco/bw/5.12/bin/logs
% chmod 777 /opt/tibco/tra/5.9/logs
```

In addition, the `palettes` directory (`$TIBCO_HOME/bw/5.12/lib/palettes`) must be writable by all users who 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 ActiveMatrix BusinessWorks

(`designer.tra` for the TIBCO Designer GUI or the appropriate `.tra` file for the engine if running from a deployment).

Uninstalling ActiveMatrix BusinessWorks

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

To uninstall ActiveMatrix BusinessWorks on Microsoft Windows:

Procedure

1. Run TIBCO Universal Installer to uninstall the product.
2. In `TIBCO_HOME/tools/universal_installer/`, run the `TIBCOUniversalInstaller`.
3. In the **TIBCOInstallationManager**, select **Uninstall Products from a TIBCO Home Location** and click **Next**.
4. Click **Next** on the **Welcome** screen.
5. Select an uninstall option and click **Next**.
 - a. **Custom Uninstall**: You can select the products to be removed.
 - b. **Typical Uninstall**: Removes all the products in the `TIBCO_HOME` folder.
6. If you selected Custom Uninstall, select the check box next to the product to uninstall and click **Uninstall**.
7. Review the product to be uninstalled and click **Uninstall**.
8. When prompted about the clean up of the `/tools` directory, click **Yes, clean it up**.
9. Click **Finish** in the **Post Uninstall Summary** screen to exit the uninstall wizard.

TIBCO Product Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCO Support, and join TIBCO Community.

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the [Product Documentation website](#), mainly in HTML and PDF formats.

The [Product Documentation website](#) is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

The following documentation for this product is available on the [TIBCO ActiveMatrix BusinessWorks™ Product Documentation](#) page:

- *TIBCO ActiveMatrix BusinessWorks™ Release Notes*
- *TIBCO ActiveMatrix BusinessWorks™ Administration*
- *TIBCO ActiveMatrix BusinessWorks™ Concepts*
- *TIBCO ActiveMatrix BusinessWorks™ Error Codes*
- *TIBCO ActiveMatrix BusinessWorks™ Getting Started*
- *TIBCO ActiveMatrix BusinessWorks™ Installation*
- *TIBCO ActiveMatrix BusinessWorks™ Palette Reference*
- *TIBCO ActiveMatrix BusinessWorks™ Process Design*

To directly access documentation for this product, double-click the following file:

`TIBCO_HOME/release_notes/TIB_<productID>_version_docinfo.html`

where *TIBCO_HOME* is the top-level directory in which TIBCO products are installed. On Windows, the default *TIBCO_HOME* is `C:\tibco`. On UNIX systems, the default *TIBCO_HOME* is `/opt/tibco`.

Other TIBCO Product Documentation

When working with ActiveMatrix BusinessWorks, you may find it useful to read the documentation of the following TIBCO products:

- TIBCO Designer™: *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 Runtime Agent™: *TRA supplies a number of TIBCO and third-party libraries used by ActiveMatrix BusinessWorks.*
- TIBCO Administrator™: *TIBCO Administrator is the monitoring and managing interface for new-generation TIBCO products such as ActiveMatrix BusinessWorks.*
- TIBCO Rendezvous® : *TIBCO Rendezvous software uses messages to enable distributed application programs to communicate across a wide variety of hardware platforms and programming languages.*

How to Access Related Third-Party Documentation

When working with ActiveMatrix BusinessWorks, you may find it useful to read the documentation of the following third-party products:

How to Contact Support for TIBCO Products

You can contact the Support team in the following ways:

- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our [product Support website](#).
- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the [product Support website](#). If you do not have a username, you can request one by clicking **Register** on the website.

How to Join TIBCO Community

TIBCO Community is the official channel for TIBCO customers, partners, and employee subject matter experts to share and access their collective experience. TIBCO Community offers access to Q&A forums, product wikis, and best practices. It also offers access to extensions, adapters, solution accelerators, and tools that extend and enable customers to gain full value from TIBCO products. In addition, users can submit and vote on feature requests from within the [TIBCO Ideas Portal](#). For a free registration, go to [TIBCO Community](#).

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