

# **TIBCO ActiveMatrix BusinessWorks™ Plug-in for SmartMapper Installation**

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# Contents

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<b>TIBCO Documentation and Services</b>	<b>4</b>
<b>Installation Overview</b>	<b>5</b>
<b>Installation Requirements</b>	<b>6</b>
Installation Account	6
System Requirements	6
<b>Using TIBCO Universal Installer</b>	<b>8</b>
Installer Overview	8
Installation Modes	8
Installation Environment	8
Installation Components	8
Installation	9
Installing in GUI Mode	10
Installing in Console Mode	10
Installing in Silent Mode	11
Uninstallation	11
Uninstalling in GUI Mode	12
Uninstalling in Console Mode	12
<b>Using Update Site</b>	<b>13</b>
Installing the Plug-in Using a Public Update Site	13
Installing the Plug-in Using a Local Update Site or Directory	13
Uninstalling the Plug-in	14
<b>Postinstallation Tasks</b>	<b>16</b>
Preparing JDBC-Based SmartMapper Service	16
Adding JDBC Drivers	16
Setting Up Database Tables	16
Upgrading Database	17
<b>Installation Logging</b>	<b>18</b>

# TIBCO Documentation and Services

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Documentation for this and other TIBCO products is available on the TIBCO Documentation site. This site is updated more frequently than any documentation that might be included with the product. To ensure that you are accessing the latest available help topics, please visit:

<https://docs.tibco.com>

## Product-Specific Documentation

Documentation for TIBCO products is not bundled with the software. Instead, it is available on the TIBCO Documentation site at <https://docs.tibco.com/products/tibco-activematrix-businessworks-smartmapper-plugin>. To directly access documentation for this product, double-click the following file:

`TIBCO_HOME/release_notes/TIB_adsmartmapper_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:\Program Files\tibco\bw6`. On UNIX systems, the default `TIBCO_HOME` is `/opt/tibco`.

The following documents for this product can be found in the TIBCO Documentation Library:

- *TIBCO ActiveMatrix BusinessWorks Plug-in for SmartMapper Installation*
- *TIBCO ActiveMatrix BusinessWorks Plug-in for SmartMapper User's Guide*
- *TIBCO ActiveMatrix BusinessWorks Plug-in for SmartMapper BUI User's Guide*
- *TIBCO ActiveMatrix BusinessWorks Plug-in for SmartMapper Release Notes*

The following documents provide additional information and can be found in the TIBCO Documentation Library:

- *TIBCO ActiveMatrix BusinessWorks Documentation*
- *TIBCO Enterprise Administrator User's Guide*

## How to Contact TIBCO Support

For comments or problems with this manual or the software it addresses, contact TIBCO Support:

- 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.

## How to Join TIBCO Community

TIBCO Community is an online destination for TIBCO customers, partners, and resident experts. It is a place to share and access the collective experience of the TIBCO community. TIBCO Community offers forums, blogs, and access to a variety of resources. To register, go to the following web address:

<https://community.tibco.com>

# Installation Overview

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You can install TIBCO ActiveMatrix BusinessWorks™ Plug-in for SmartMapper either by using TIBCO Universal Installer or an update site.

- TIBCO Universal Installer

You can install the plug-in by using TIBCO Universal Installer, which provides three installation modes.

For more information, see [Using TIBCO Universal Installer](#).

- Update Site

You can install the plug-in from within TIBCO Business Studio™ by using the public Update Site maintained by TIBCO or by using a local update site managed by your organization.

For more information, see [Using Update Site](#).

A plug-in must be installed into an existing installation environment where TIBCO ActiveMatrix BusinessWorks™ is already installed. The installation environment of TIBCO ActiveMatrix BusinessWorks is referenced as *TIBCO\_HOME*. On Microsoft Windows, the default value of *TIBCO\_HOME* is C:\Program Files\tibco\bw6.




If a previous version of the plug-in is already installed in the TIBCO HOME where the new version is to be installed, you must uninstall the previous version before installing the new version.

# Installation Requirements

Before you run the installer, ensure that you meet all the hardware and software requirements and you have appropriate privileges to run the installer.

## Installation Account

To install on Microsoft Windows, Linux, or on Mac OS, you must have appropriate privileges. Privileges differ for various platforms.



Use the same installer account to install all TIBCO ActiveMatrix BusinessWorks products.

Platform	Account Privileges
Microsoft Windows	<p>Only users with administrator privileges can install the plug-in. If you do not have administrator privileges, the installer will automatically exit.</p> <p>To install the product on a network drive, ensure that the account used for installation has permission to access the network drive.</p>
Linux	<p>Any type of user, regular (non-root) user and super-user (root), can perform installation.</p> <p>A graphic environment such as CDE or X Windows is required to run the installer in GUI mode.</p>
Mac OS	<p>Any type of user, regular (non-root) user and super-user (root), can perform installation.</p>

## System Requirements


Ensure that you meet all the system requirements before installing the plug-in.

### Platform

Before you run the installer, ensure that the appropriate platform is supported. See the `readme` file for information regarding supported operating system platforms, versions, and the required patches.

### Disk Space

The installer requires space in the temporary directory before installation, and additional space in the temporary directory for running the installer. Ensure that sufficient space is available in the directory that you want to use as the installation environment (`TIBCO_HOME`).



While installing the product, avoid running other processes that consume disk space in the installation environment directory. If another process consumes disk space while the installer is copying the files, the installer might fail and display a failure message.

### Software

Ensure that you have installed the required software before you run the installer. See the `readme` file for supported products and versions.

The following are required TIBCO products.

Software	Description
TIBCO ActiveMatrix BusinessWorks	<p>Required.</p> <p>TIBCO ActiveMatrix BusinessWorks supports your integration project throughout the project life cycle. It includes a common graphical user interface for configuration, process design, and deployment.</p>
TIBCO® Enterprise Administrator	<p>Optional.</p> <p>The TIBCO Enterprise Administrator comprises the TIBCO Enterprise Administrator server, a web user interface for the server, and the shell interface, which allows you to manage the applications that you create in the TIBCO Business Studio.</p>
TIBCO ActiveSpaces® Enterprise Edition	<p>Optional.</p> <p>TIBCO ActiveSpaces Enterprise Edition is a distributed peer-to-peer in-memory data grid, a form of virtual shared memory that leverages a distributed hash table with configurable replication.</p> <div data-bbox="946 1003 991 1045"> </div> <div data-bbox="1058 1003 1445 1062"> <p>This product is required only when using ActiveSpaces cache.</p> </div>

# Using TIBCO Universal Installer

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TIBCO Universal Installer provides three modes to install TIBCO ActiveMatrix BusinessWorks Plug-in for SmartMapper.

## Installer Overview

TIBCO Universal Installer provides three installation modes. Using TIBCO Universal Installer, you can select the installation environment and the installation components.

If you are using TIBCO Universal Installer for the first time to install the plug-in, it is good practice to review the following topics before the installation:

- [Installation Modes](#)
- [Installation Environment](#)
- [Installation Components](#)

## Installation Modes

You can run TIBCO Universal Installer in three modes: GUI, console, and silent. Each mode is supported on all platforms.

### GUI Mode

In GUI mode, the installer displays panels where you can select a product, product location, and so on. To invoke the installer in GUI mode, double-click the executable file.

### Console Mode

In console mode, you can run the installer on a command line. This is useful if your machine does not have a GUI environment.

### Silent Mode

In silent mode, the installer installs the product without prompting you for information. The installer uses either default or custom settings that are saved in a response file.

## Installation Environment

An installation environment isolates product installations. A product installed into one installation environment cannot access components in other installation environments.

An installation environment is the top level installation directory for TIBCO products. An installation environment consists of the following properties:

- **Directory**  
Identifies the directory where the product is installed.
- **Name**  
Identifies the name of the folder where the product is installed.


## Installation Components

Different installation components are associated with different functions. Using TIBCO Universal Installer, you can select installation components during the installation.

Installation components are grouped into different installation profiles. One installation profile is associated with one or more installation components. When you select a profile, the components grouped to the selected profile are installed. By default, the **Typical** installation profile is selected, so all the installation components are installed.



The following installation components are available for the plug-in:

Component	Description
TIBCO ActiveMatrix BusinessWorks Plug-in for SmartMapper Design	<p>This component includes the palettes, shared resources, and samples that show how the plug-in interacts with TIBCO ActiveMatrix BusinessWorks. You can configure your own business process in TIBCO Business Studio with an Eclipse user interface.</p> <p> This component must be installed together with the runtime component. Otherwise, an error occurs during the installation.</p>
TIBCO ActiveMatrix BusinessWorks Plug-in for SmartMapper Runtime	This component does the actual work of passing and converting data to and from the vendor application. Parameters of data exchanges are stored in projects created using the plug-in palette.
TIBCO ActiveMatrix BusinessWorks Plug-in for SmartMapper BUI	This component helps you to manage relationship data in a web-based user interface. All the configuration files for initializing the SmartMapper Business UI are located in the <i>TIBCO_HOME\bw\palettes\smartmapper\7.1\admin</i> directory .
TIBCO ActiveMatrix BusinessWorks Plug-in for SmartMapper Tools	This component allows you to bulk load and extract relationship data, compare ER Models, upgrade database, and transfer relationship data by using a series of command-line tools. These tools are installed in the <i>TIBCO_HOME\bw\palettes\smartmapper\7.1\tools</i> directory.

The following installation profiles are available for the plug-in:

Installation Profile	Installed Components
Runtime	When this profile is selected, the TIBCO ActiveMatrix BusinessWorks Plug-in for SmartMapper Runtime component is installed.
BUI	When this profile is selected, the TIBCO ActiveMatrix BusinessWorks Plug-in for SmartMapper BUI component is installed.
Tools	When this profile is selected, the TIBCO ActiveMatrix BusinessWorks Plug-in for SmartMapper Tools component is installed.
Typical	<p>When this profile is selected, all the installation components are installed.</p> <p>By default, <b>Typical</b> is selected.</p>

## Installation

When using TIBCO Universal Installer, you can install the plug-in in GUI, console, or silent mode.

Ensure that your system meets all the requirements described in the [Installation Requirements](#) section.



The plug-in must be installed into an existing installation environment where TIBCO ActiveMatrix BusinessWorks is installed. Stop all running processes in the installation environment before the installation.

## Installing in GUI Mode

In GUI mode, the installer prompts you for information regarding the installation environment, installation profile, and other installation information.

### Procedure

1. Open the physical media or download the installation package from the TIBCO eDelivery site (<https://edelivery.tibco.com>).  
To download the installation package, a user name and password are required. If you do not have a user name and password, contact TIBCO Technical Support.
2. Extract the content of the installation package to a temporary directory.
3. Use the extracted installation package to start the installation in one of the following ways:
  - On Microsoft Windows, double-click `TIBCOUniversalInstaller-x86-64.exe`.
  - On Linux, run `TIBCOUniversalInstaller-platform-acronym.bin`.
  - On Mac OS, double-click `TIBCOUniversalInstaller-mac.command`.
4. In the Welcome dialog, click **Next**.
5. In the License Agreement dialog, read through the license agreement and click **I accept the terms of the license agreement**. Click **Next**.
6. In the TIBCO Installation Home dialog, click **Use an existing TIBCO\_HOME** to select an existing installation environment where TIBCO ActiveMatrix BusinessWorks is installed. Click **Next**.  
See [Installation Environment](#) for more details.
7. In the Installation Profile Selection dialog, select an installation profile to specify the installation components to be installed. Or select the **Customize Installation** check box to select the installation components. Click **Next**.  
See [Installation Components](#) for more details.
8. In the Pre-Install Summary dialog, review the list of products selected for the installation. Click **Install**.
9. In the Post Install Summary dialog, review the list of the installation information. Click **Finish** to complete the installation process and exit the installer.

## Installing in Console Mode

In console mode, you can run the installer on a command line.

### Procedure

1. Open the physical media or download the installation package from the TIBCO eDelivery site (<https://edelivery.tibco.com>).  
To download the installation package, a user name and password are required. If you do not have a user name and password, contact TIBCO Technical Support.
2. Extract the content of the package to a temporary directory.
3. On a command line, navigate to the temporary directory to which you extracted the installation package.
4. Run the following command to start the installation:
  - On Microsoft Windows: `TIBCOUniversalInstaller.cmd -console`
  - On Linux: `./TIBCOUniversalInstaller-platform-acronym.bin -console`

- On Mac OS: `./TIBCOUniversalInstaller-mac.command -console`
5. Respond to the messages on the command line.  
The installation options are the same as GUI mode. See [Installing in GUI Mode](#) for more details.
  6. When the installation is completed, press Enter to exit the installer.

## Installing in Silent Mode

In silent mode, you can run the installer without user input by pointing the installer to an existing response file.

A default response file named `TIBCOUniversalInstaller_adsmartmapper_version.silent` is packaged with TIBCO Universal Installer. Before launching the silent installation, you have to edit the response file with information about your environment. It is good practice to make a copy of the default response file, then edit that file and use it for the installation.

- If you invoke the installer with the `-silent` argument, the installer reads the input from default response file.
- If you invoke the installer with the `-silent -V responseFile=<filename>` argument, the installer reads the input from the specified response file.

### Procedure

1. Open the physical media or download the package from the TIBCO eDelivery site (<https://edelivery.tibco.com>).  
To download the installation package, a user name and password are required. If you do not have a user name and password, contact TIBCO Technical Support.
2. Extract the content of the package to a temporary directory and open the `TIBCOUniversalInstaller_adsmartmapper_version.silent` file.
3. Update the response file directly, or make a copy of the response file first, and then update the copied file.
4. On the command line, navigate to the temporary directory where you extracted the installation package.
5. Enter the following command to start the installation:
  - On Microsoft Windows: `TIBCOUniversalInstaller.cmd -silent [-V responseFile="filename"]`
  - On Linux: `./TIBCOUniversalInstaller-platform-acronym.bin -silent [-V responseFile="filename"]`
  - On Mac OS: `./TIBCOUniversalInstaller-mac.command -silent [-V responseFile="filename"]`



If you copy the response file to another directory, not the temporary directory containing the installer, you have to provide the absolute path of the response file.

## Uninstallation

You can uninstall the plug-in in GUI, or console mode when using TIBCO Universal Installer.



Before uninstalling the plug-in, stop all the running processes in the installation environment.

## Uninstalling in GUI Mode

You can uninstall all the products or specific products from a selected TIBCO HOME when using TIBCO Universal Installer to uninstall the plug-in in GUI mode.

### Procedure

1. Navigate to the *TIBCO\_HOME/tools/universal\_installer* directory.
2. Use one of the following ways to start the uninstallation:
  - On Microsoft Windows, double-click *TIBCOUniversalInstaller-x86-64.exe*.
  - On Linux, run *TIBCOUniversalInstaller-platform-acronym.bin*.
  - On Mac OS, double-click *TIBCOUniversalInstaller-mac.command*.
3. In the TIBCO Installation Manager dialog, select **Uninstall Products from a TIBCO Home Location**.
4. From the **TIBCO Home Location** list, select the TIBCO HOME where the product is installed. Click **Next**.
5. In the Welcome dialog, click **Next**.
6. In the Uninstallation Type dialog, select an uninstallation option and click **Next**.
  - **Custom Uninstall**  
You can select the products to be removed.
  - **Typical Uninstall**  
You cannot select the products. All the products in the selected TIBCO HOME are removed.
7. If you select **Custom Uninstall** in [step 6](#), select the check box next to the product to be uninstalled in the Product Uninstall Selection dialog. Click **Next**.
8. In the Pre-Uninstall Summary dialog, review the product to be uninstalled. Click **Uninstall**.
9. In the Post Uninstall Summary dialog, click **Finish** to complete the uninstallation process and exit the installer.
10. If you have uninstalled all the software in the selected TIBCO HOME, delete the folders in the installation environment and user home.

## Uninstalling in Console Mode

If you are not working in a GUI environment, you can uninstall the software in console mode.

### Procedure

1. On a command line, navigate to the *TIBCO\_HOME/tools/universal\_installer* directory.
2. Run the following command to start the uninstallation:
  - Microsoft Windows: *TIBCOUniversalInstaller-x86-64.exe -console*
  - Linux: *./TIBCOUniversalInstaller-platform-acronym.bin -console*
  - Mac OS: *./TIBCOUniversalInstaller-mac.command -console*
3. Respond to the messages on the command line.  
The uninstallation options are the same as GUI mode. See [Uninstalling in GUI Mode](#) for more details.
4. When the uninstallation is completed, press Enter to exit the installer.

# Using Update Site

You can install the plug-in by using a public update site or a local update site.

## Installing the Plug-in Using a Public Update Site


You can install TIBCO ActiveMatrix BusinessWorks Plug-in for SmartMapper from within TIBCO Business Studio using the public update site maintained by TIBCO.

### Prerequisites

The software package must be available on the update site, <http://update.tibco.com/eclipse/bw/version> (where the *version* at the end of the address reflects the version of BusinessWorks you are using). Typically, the package name has the format `<plugin_name>_<version>_p2installer.zip`.

### Procedure

1. Start TIBCO Business Studio if it has not already been started.
  - On Microsoft Windows, click **Start > All Programs > TIBCO > TIBCO\_HOME > TIBCO Business Studio version\_number > Studio for Designers**.
  - On Linux or Mac OS, run the TIBCO Business Studio executable located in the `TIBCO_HOME/studio/version_number/eclipse` directory.
2. From the menu, select **Help > Install New Software** to open Eclipse Update Manager.
3. In the Install dialog, enter the URL of the public update site, <http://update.tibco.com/eclipse/bw/version>, in the **Work with** field.  
You can save the URL by adding it to the list of available software sites using the TIBCO Business Studio menu **Window > Preferences > Install/Update > Available Software Sites**.
4. From the list of available plug-ins, select the plug-in you want to install. Click **Next**.
 



You can select more than one plug-in from the list to install multiple plug-ins at the same time.
5. In the Install Details dialog, review the components you want to install. Click **Next**.
6. In the Review Licenses dialog, review the licenses, and click **I accept the terms of the license agreement**.
7. Click **Finish** to start the installation.

### What to do next

After installing the software, restart TIBCO Business Studio. This restart is necessary for the software to install completely.

## Installing the Plug-in Using a Local Update Site or Directory

You can install TIBCO ActiveMatrix BusinessWorks Plug-in for SmartMapper from within TIBCO Business Studio using a local site or directory maintained by your organization.

### Prerequisites

Ensure that the software package is downloaded from the TIBCO download site and stored in an appropriate location, such as a local update site or a directory. Typically, the package name has the format `<plugin_name>_<version>_p2installer.zip`.

## Procedure

1. Start TIBCO Business Studio if it has not already been started.
  - On Microsoft Windows, click **Start > All Programs > TIBCO > TIBCO\_HOME > TIBCO Business Studio *version\_number* > Studio for Designers**.
  - On Linux or Mac OS, run the TIBCO Business Studio executable located in the *TIBCO\_HOME/studio/version\_number/eclipse* directory.
2. From the menu, select **Help > Install New Software** to open Eclipse Update Manager.
3. In the Install dialog, click **Add** to add a new update site you want to work with.



Only one update site can be added at a time. Repeat the following steps to add multiple repositories that contain the downloaded software packages.

You can manage the list of software sites using the TIBCO Business Studio menu **Window > Preferences > Install/Update > Available Software Sites**.

- a) In the Add Repository dialog, click **Archive** and locate the Eclipse plug-in installation package you want to install, and then click **Open**.  
The selected plug-in installation package is added to the **Location** field.
  - b) Provide a name for the repository. For example, specify the name as **TIBCO Plugin Update Site for <plug-in>**. Click **OK**.  
The plug-in installation package is added to the list of available software in the Install dialog.
4. In the Install dialog, select the plug-in you want to install. Click **Next**.
 

If there is more than one plug-in in the dialog, you can select multiple plug-ins to install at the same time.
  5. In the Install Details dialog, review the components you want to install. Click **Next**.
  6. In the Review Licenses dialog, review the licenses, and click **I accept the terms of the license agreement**.
  7. Click **Finish** to start the installation.

## What to do next

After installing the software, restart TIBCO Business Studio. This restart is necessary for the software to install completely.

## Uninstalling the Plug-in

You can uninstall TIBCO ActiveMatrix BusinessWorks Plug-in for SmartMapper from Eclipse Update Manager.

## Procedure

1. Open TIBCO Business Studio using one of the following ways:
  - Microsoft Windows: click **Start > All Programs > TIBCO > TIBCO\_HOME > TIBCO Business Studio *version\_number* > Studio for Designers**.
  - Linux or Mac OS: run the TIBCO Business Studio executable located in the *TIBCO\_HOME/studio/version\_number/eclipse* directory.
2. From the menu, click **Help > Install New Software** to open Eclipse Update Manager.
3. In the Available Software dialog, click the **already installed** link.

4. In the **Installed Software** tab, select the product to be uninstalled and click **Uninstall**.
5. In the Uninstall Details dialog, review the product to be uninstalled. Click **Finish**.
6. Click **Yes** when you are prompted to restart TIBCO Business Studio.

# Postinstallation Tasks

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After installing the plug-in, you need to perform certain postinstallation tasks.

## Preparing JDBC-Based SmartMapper Service

The plug-in supports storing relationship data in a database by using the JDBC-Based SmartMapper Service.

TIBCO BusinessWorks currently packages drivers for Microsoft SQL Server database. In addition, the plug-in also supports Oracle and MySQL databases, but you need to add the drivers before using the services.

To use the JDBC-based SmartMapper service, the following tasks need to be performed after installation:

- [Adding JDBC Drivers](#)
- [Setting Up Database Tables](#)

## Adding JDBC Drivers

If you want to use MySQL or Oracle as the JDBC-based SmartMapper service, you need to add drivers separately for design time and runtime.

### Procedure

1. Download drivers from official website:
  - MySQL: `mysql-connector-java-5.1.29-bin.jar`
  - Oracle: `ojdbc6.jar`
2. Copy the drivers to the `TIBCO_HOME\bw\6.3\config\design\thirdparty` directory.
3. Optional: If you want to use the database at runtime,
  - a) Copy the drivers to the corresponding directories.
    - MySQL:
 

```
TIBCO_HOME\bw\6.3\config\drivers\shells\jdbc.mysql.runtime\runtime\plugins\com.tibco.bw.jdbc.datasourcefactory.mysql\lib
```
    - Oracle:
 

```
TIBCO_HOME\bw\6.3\config\drivers\shells\jdbc.oracle.runtime\runtime\plugins\com.tibco.bw.jdbc.datasourcefactory.oracle\lib
```
  - b) On a command line, navigate to `TIBCO_HOME\bw\6.3\bin`, run command:
    - MySQL: `bwinstall.exe mysql-driver`
    - Oracle: `bwinstall.exe oracle-driver`

## Setting Up Database Tables

Regardless of which database you want to use as the JDBC-based SmartMapper service, you need to set up some basic tables by running database scripts.

See the readme file for supported versions of each database.





If two ER Models are assigned to the same database, they need to be assigned through different users to avoid the conflict between tables.

### Procedure

1. Select a user name and password to create a database account for a user. This account can also be created by your database administrator.

If you use Oracle database, you need to have the following privileges to run scripts:

- CREATE SESSION
- CREATE ANY TABLE
- CREATE SEQUENCE
- UNLIMITED TABLESPACES

2. Run the database script according to the database that you want to use. The scripts are located in the `TIBCO_HOME\bw\palettes\smartmapper\7.1\sql` directory.

See *TIBCO ActiveMatrix BusinessWorks Plug-in for SmartMapper User's Guide* for more details regarding using JDBC-Based Database Service.

## Upgrading Database

If you want to use the same database that is used in TIBCO ActiveMatrix BusinessWorks SmartMapper 5.x, you need to upgrade the database before using TIBCO ActiveMatrix BusinessWorks Plug-in for SmartMapper 7.1.0.

The Database Upgrade tool is used to upgrade. See *TIBCO ActiveMatrix BusinessWorks Plug-in for SmartMapper User's Guide* for more details about how to use the upgrade tool.



Ensure that you have **TIBCO ActiveMatrix BusinessWorks Plug-in for SmartMapper Tools** selected when installing the plug-in. See [Installation Components](#) for more details.

# Installation Logging

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If you encounter problems with the installation, first ensure that your system meets all requirements. Next, check the installer log for potential problems.

The installer log file, `tibco_universal_installer.username_install.log`, is available in the following locations:

- On Microsoft Windows: `C:\Users\username\.TIBCO\install_timestamp`
- On Linux: `user_home_dir/.TIBCO/install_timestamp`
- On Mac OS: `user_home_dir/.TIBCO/install_timestamp`

The installer log file captures the following information:

- Detailed information regarding the user that invoked the installer, hostname, operating system details, and so on
- List of assemblies installed
- Information related to the Ant scripts executed by the installer

To change the location of the installer log file, specify the option `-V logFile="myLogFile"` when you run the installer.