

# **TIBCO ActiveMatrix BusinessWorks™ Service Engine Plug-in for Oracle E-Business Suite**

## **Installation**

*Software Release 1.1  
September 2011*

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# Preface



**This software may be available on multiple operating systems. However, not all operating system platforms for a specific software version are released at the same time. Please see the readme file for the availability of this software version on a specific operating system platform.**

This installation guide explains how to install TIBCO ActiveMatrix BusinessWorks Service Engine Plug-in for Oracle E-Business Suite.

## Topics

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- [Related Documentation, page viii](#)
- [Typographical Conventions, page ix](#)
- [Connecting with TIBCO Resources, page xi](#)

## Related Documentation

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This section lists documentation resources you may find useful.

### TIBCO ActiveMatrix BusinessWorks Service Engine Plug-in for Oracle E-Business Suite Documentation

The following documents form the TIBCO ActiveMatrix BusinessWorks Service Engine Plug-in for Oracle E-Business Suite documentation set:

- *TIBCO ActiveMatrix BusinessWorks Service Engine Plug-in for Oracle E-Business Suite Installation* Read this manual for instructions on site preparation and installation.
- *TIBCO ActiveMatrix BusinessWorks Service Engine Plug-in for Oracle E-Business Suite User's Guide* Read this manual for instructions on using the product.
- *TIBCO ActiveMatrix BusinessWorks Service Engine Plug-in for Oracle E-Business Suite 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:

- TIBCO Designer™
- TIBCO ActiveMatrix BusinessWorks™
- TIBCO ActiveMatrix BusinessWorks™ Service Engine
- TIBCO Rendezvous®
- TIBCO Enterprise Message Service™
- TIBCO Hawk®
- TIBCO Runtime Agent™
- TIBCO Business Studio™
- TIBCO ActiveMatrix BusinessWorks™ Plug-in for Oracle E-Business Suite

## Typographical Conventions

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The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
<i>TIBCO_HOME</i>	<p>Many TIBCO products must be installed within the same home directory. This directory is referenced in documentation as <i>TIBCO_HOME</i>. The default value of <i>TIBCO_HOME</i> depends on the operating system. For example, on Windows systems, the default value is <code>C:\tibco</code>.</p> <p>Other TIBCO products are installed into an installation environment. Products installed into different installation environments do not share components. Incompatible products and multiple instances of the same product must be installed into different installation environments. An installation environment consists of the following properties:</p> <ul style="list-style-type: none"> <li>• <b>Name</b> Identifies the installation environment. The name is appended to the name of Windows services created by the installer and is a component of the path to the product in the Windows Start &gt; All Programs menu. This directory is referenced in documentation as <i>ENV_NAME</i>.</li> <li>• <b>Description</b> Provides information about what the environment contains or is used for.</li> <li>• <b>Path</b> The directory into which the product is installed. 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 <code>C:\tibco</code>.</li> </ul> <p>A TIBCO configuration folder stores configuration data generated by TIBCO products. Configuration data can include sample scripts, session data, configured binaries, logs, and so on. This folder is referenced in documentation as <i>CONFIG_HOME</i>. The default location of the folder is <code>USER_HOME/ENV_NAME/data</code>. For example, on Windows, the default location is <code>C:\Documents and Settings\UserName\Application Data\ENV_NAME\data</code>.</p>
<i>ENV_NAME</i>	
<i>CONFIG_HOME</i>	
code font	<p>Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example:</p> <p>Use <code>MyCommand</code> to start the foo process.</p>

Table 1 General Typographical Conventions

Convention	Use
<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 the username <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 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>
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.

## 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 username and password. If you do not have a username, you can request one.



## Chapter 1 **Introduction**

This chapter explains installation modes, requirements, and other options you should be aware of before starting the installation.

### Topics

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- [Installation Overview, page 2](#)
- [Installation Requirements, page 4](#)

## Installation Overview

---

This section gives an overview of the installer.

### Installation Modes

Three installation modes are available: GUI, console, and silent.

#### GUI Mode

In the GUI mode, the installer presents panels that allow you to make choices about product selection, product location, and so on. To invoke the installer in GUI mode, double-click the executable.

#### 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 GUI environment.

#### Silent Mode

Silent mode installs the product using either default or custom settings that are saved in a response file. Silent mode installs the product without prompting you for information.

### Installation Types

Two installation types are available: Typical or Custom.

- The Typical installation type installs all the software for a specific profile.
- The Custom installation type allows you to select components.

### Installer Account

#### Microsoft Windows

You must have administrator privileges for the machine on which this product 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, ensure that the account used for installation has permission to access the network drive.

## UNIX

Any user can install this product.

- Regular (non-root) user
- Super-user (root).

While installing this product on UNIX platforms, ensure that the same installer account is used to install all TIBCO products.

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

## Installer Log File

The installer log file, `tibco_universal_installer.username_install.log`, is written to the `.TIBCO/install_timestamp` folder of the user's home directory. To change the location of the installer log file, specify the option `-v logFile="myLogFile"` when you run the installer.

The installer log file captures the following information:

- Installation environment details such as user that invoked the installer, host name, Java home in the environment, operating system details, and so on.
- List of assemblies installed.

## Installation Requirements

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This section describes the disk space requirements, system memory requirements, software requirements, and supported platforms for this product.

### Disk Space Requirements

Before installing this product, extract the contents of the installation archive to a temporary directory. The installer files consume up to 160 MB of disk space.

#### Temporary Disk Space Required by the Installer

The installer requires at least 160 MB of free space in the temporary directory. On Microsoft Windows, the temporary directory typically is:

```
%SystemDrive%\Documents and Settings\user_name\Local Settings\Temp.
```

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

```
-is:tempdir /new_temp
```

where */new\_temp* has sufficient free disk space.

The installer calculates the disk space required in the product home location for the selected components. The calculation is done before the actual installation (copying of files to the system) begins. The installer will proceed only if sufficient free disk space is available in the product home location.

However, if disk space is consumed by another process while the installer is copying the files, and if the required disk space is thereby reduced, the installer may fail and will then give a failure message.

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

#### Disk Space After Installation

This product can consume 50 MB of free space under *TIBCO\_HOME*.

### System Memory Requirements

A minimum of 2 GB of physical memory is required.

## Supported Platforms

Refer to the readme file for the supported platforms and versions and required patches.

## Software Requirements

To install only the design time components (SOA Development profile) of TIBCO ActiveMatrix BusinessWorks Service Engine, the following software products are required, as shown in [Table 2](#).

*Table 2 Required TIBCO Products for Design Time*

Product	Purpose
TIBCO Rendezvous	(Required) Rendezvous software makes it easy to create distributed applications that exchange data across a network. You get software support for network data transport and network data representation. Rendezvous software supports many hardware and software platforms, so programs running on many different kinds of computers on a network can communicate seamlessly.  TIBCO Rendezvous must be installed before installing TIBCO Runtime Agent.
TIBCO Enterprise Message Service	(Required) TIBCO Enterprise Message Service software allows you to send messages from an application in a format that conforms to the Java Messaging Service (JMS) specification. The software also extends the JMS specification with a reliable delivery mode and a no-acknowledge acknowledgement mode.
TIBCO Runtime Agent	(Required) TIBCO Runtime Agent includes TIBCO Designer along with a number of TIBCO and third-party libraries used by the plug-in and other TIBCO products.  You must install TIBCO Runtime Agent before you install TIBCO ActiveMatrix BusinessWorks Service Engine Plug-in for Oracle E-Business Suite.
TIBCO ActiveMatrix BusinessWorks	(Required) TIBCO ActiveMatrix BusinessWorks is a scalable, extensible, and easy to use integration platform that allows you to develop integration projects.  TIBCO ActiveMatrix BusinessWorks must be installed before installing TIBCO ActiveMatrix BusinessWorks Service Engine Plug-in for Oracle E-Business Suite.
TIBCO ActiveMatrix BusinessWorks Service Engine	(Required) TIBCO ActiveMatrix BusinessWorks Service Engine provides an ActiveMatrix container to deploy ActiveMatrix BusinessWorks projects using the TIBCO ActiveMatrix Administrator.  Make sure that TIBCO Enterprise Message Service has been installed.
TIBCO ActiveMatrix BusinessWorks Plug-in for Oracle E-Business Suite	(Required) TIBCO ActiveMatrix BusinessWorks Plug-in for Oracle E-Business Suite allows TIBCO ActiveMatrix BusinessWorks customers to configure a connection to Oracle E-Business Suite, and then use activities to integrate with Oracle E-Business Suite.

To install only the runtime components (Administration profile) of TIBCO ActiveMatrix BusinessWorks Service Engine, the following software products are required, as shown in [Table 3](#).

*Table 3 Required TIBCO Products for Runtime*

Product	Purpose
TIBCO Rendezvous	(Required) Rendezvous software makes it easy to create distributed applications that exchange data across a network. You get software support for network data transport and network data representation. Rendezvous software supports many hardware and software platforms, so programs running on many different kinds of computers on a network can communicate seamlessly.
TIBCO Enterprise Message Service	(Required) TIBCO Enterprise Message Service software allows you to send messages from an application in a format that conforms to the Java Messaging Service (JMS) specification. The software also extends the JMS specification with a reliable delivery mode and a no-acknowledge acknowledgement mode.
TIBCO ActiveMatrix BusinessWorks Service Engine	(Required) TIBCO ActiveMatrix BusinessWorks Service Engine provides an ActiveMatrix container to deploy ActiveMatrix BusinessWorks projects using the TIBCO ActiveMatrix Administrator. Make sure that TIBCO Enterprise Message Service has been installed.

## Chapter 2 **Installation Steps**

This chapter explains how to install and uninstall this product.

### Topics

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- [Installation, page 8](#)
- [Uninstallation, page 11](#)

## Installation

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The following sections describe the installation process in the available installation modes:

- [GUI Mode, page 8](#)
- [Console Mode, page 9](#)
- [Silent Mode, page 10](#)

### GUI Mode

To install this product in GUI mode,

1. Open the physical media or download the package.
2. Extract the contents of the package 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 on 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 from the list on the left.

To customize the profile feature settings, check the **Customize Installation** checkbox and use the feature tree on the right.
8. Click the **Next** button. The TIBCO Installation Home dialog displays.

An installation environment isolates product installations. A product installed into an installation environment does not access components in other

installation environments. An installation environment consists of a name and path. You can choose a new environment or an existing environment.

- **Create a new TIBCO\_HOME** To install the product into a new installation environment, specify the following properties:

**Directory** The directory into which the product is installed. Type a path or click **Browse** to specify the path or accept the default location.

The path cannot contain special characters such as "\*", "#", "?", ">", "<", "%", "&", "\$", "^", or "|". The path cannot be the same as the path of an existing environment.

**Name** Identifies the installation environment. The name cannot contain special characters such as "\*", "?", ">", "<", ":", "|", "/", "\", or quotation marks("").

The name is appended to the name of Windows services created by the installer and is a component of the path to the product in the Windows Start > All Programs menu.

- **Use an existing TIBCO\_HOME** To install the product into an existing installation environment, select the environment from the drop-down list.
9. Click the **Next** button.
  10. Verify the list of products selected for install in the Pre-Install Summary dialog.
  11. Click the **Install** button to start the installation process.
  12. Review the information listed in the Post-Install Summary dialog, and click the **Finish** button to exit the install wizard.

## Console Mode

To install this product in console mode:

1. Open the physical media or download the package.
2. Extract the contents of the package to a temporary directory.
3. Using a console window, navigate to the temporary directory.
4. Run `TIBCOUniversalInstaller -console`.
5. Complete the installation by responding to the console window prompts.

## Silent Mode

In silent mode, the universal installer does not prompt for any inputs during installation. Instead, the inputs are read from a response file that can be provided as a command-line parameter. If no value is specified, the installer uses the default `TIBCOUniversalInstaller.silent` file.

The `TIBCOUniversalInstaller.silent` file is packaged in the directory that contains the universal installer. Edit the file with information for your environment before launching the silent installation. The file includes comments that describe the installation properties you can set. While you can use the `TIBCOUniversalInstaller.silent` file, it's good practice to copy the file to a different name and use that file for the silent install.

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

1. Open the physical media or download the package.
2. Extract the contents of the package to a temporary directory.
3. Using a console window, navigate to the temporary directory.
4. Make a copy of the `TIBCOUniversalInstaller.cmd` file, `TIBCOUniversalInstaller-bwsepluginoebs_1.1.0.silent` file, and `TIBCOUniversalInstaller.exe` file.
5. Rename the `TIBCOUniversalInstaller-bwsepluginoebs_1.1.0.silent` file.
6. Using a text editor, open the copied file and update the install location and features to install.
7. Run the following:

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

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

## Uninstallation

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The following sections describe the uninstallation process in the available modes:

- [GUI Mode, page 11](#)
- [Console Mode, page 11](#)

### GUI Mode

To uninstall this product in the GUI mode, complete the following steps:

1. Shut down all running TIBCO applications.
2. Navigate to `TIBCO_HOME\tools\universal_installer` and run `TIBCOUniversalInstaller.exe`.
3. Select **Uninstall Products From Selected TIBCO Home Location** radio button, then click the **Next** button.
4. The Welcome dialog displays. Click the **Next** button.
5. Choose an uninstallation option. The wizard provides two uninstallation options:
  - **Custom Uninstall** You can select the products to be removed.
  - **Typical Uninstall** The universal uninstaller removes all the products in this `TIBCO_HOME`.
6. Click the **Next** button. If you selected the **Custom Uninstall (Select the Products to be Removed)** radio button, select the checkboxes for products to uninstall, and then click the **Uninstall** button.
7. Review the Pre-Uninstall Summary and click the **Uninstall** button to start the uninstallation process.
8. Review the Post-Uninstall Summary and click the **Finish** button to exit the uninstall wizard.

### Console Mode

To uninstall this product in the Console mode, complete the following steps:

1. Using a command window, navigate to the `TIBCO_HOME\tools\universal_installer` directory.
2. Type the following command at the command prompt:
 

```
TIBCOUniversalInstaller.exe -is:javaconsole -console
```

3. Complete the installation by responding to the console window prompts.

## Chapter 3 **Post-Installation**

This section specifies post-installation tasks that you must complete after installing TIBCO ActiveMatrix BusinessWorks Service Engine Plug-in for Oracle E-Business Suite.

### Topics

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- [Creating TIBCO ActiveMatrix Administrator, page 14](#)
- [Configuring Third-Party Drivers, page 17](#)
- [Setting Up the TIBCO ActiveMatrix Environment, page 19](#)
- [Adding Third-Party Drivers to a Node, page 20](#)

## Creating TIBCO ActiveMatrix Administrator

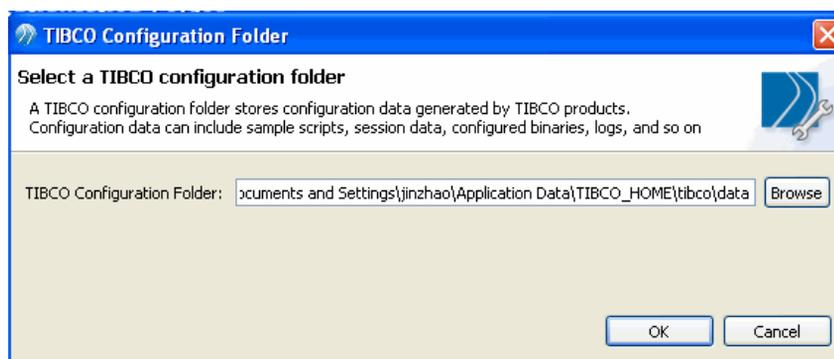
TIBCO ActiveMatrix Administrator Server is created using the TIBCO Configuration Tool (TCT), which can be found in the `TIBCO_HOME\tct\1.1` directory.

The following steps show how to create TIBCO ActiveMatrix Administrator:

1. Run `TIBCO_HOME\tct\1.1\TIBCOConfigurationTool`.

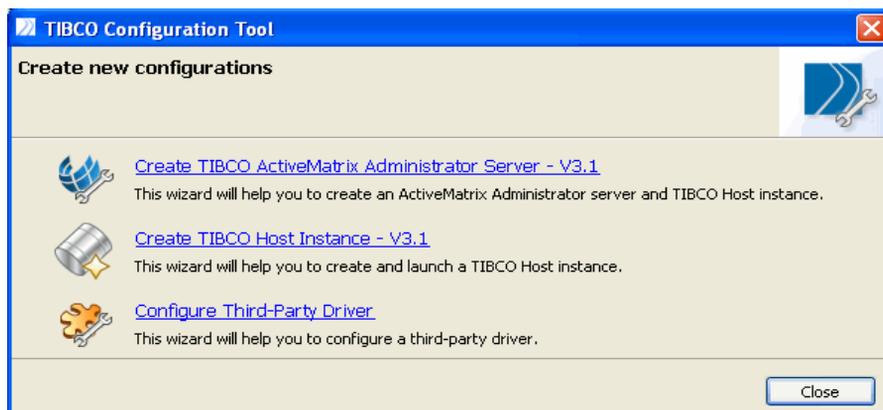
The TIBCO Configuration Folder dialog appears, as shown in [Figure 1](#).

Figure 1 Select a TIBCO Configuration Folder



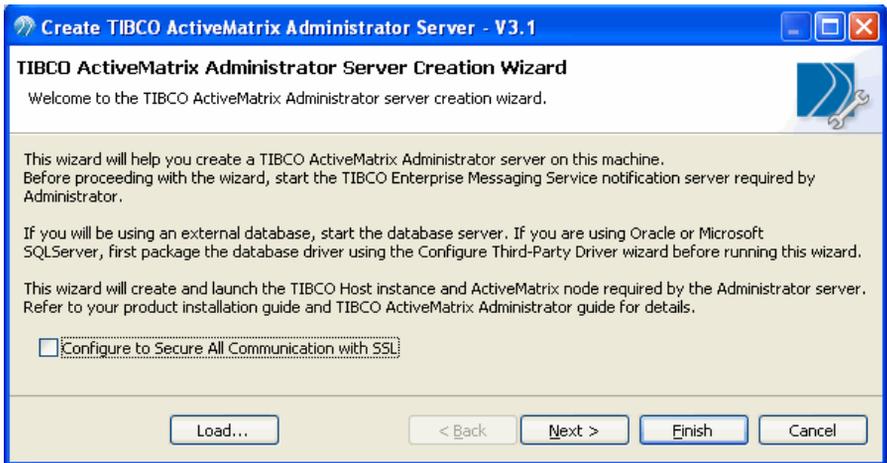
2. Accept the default folder, type a folder name, or click the **Browse** button to select a folder, for example, `D:\Documents and Settings\user_name\Application Data\TIBCO_HOME\tibco\data`. Then click the **OK** button. The TIBCO Configuration Tool dialog appears with links to the configuration wizards.

Figure 2 Create New Configurations



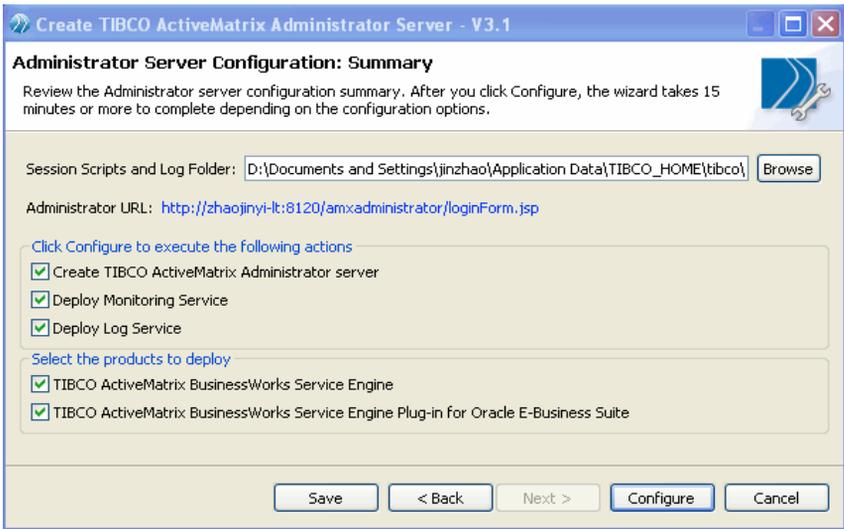
3. Click the **Create TIBCO ActiveMatrix Administrator Server - V3.1** link. The TIBCO ActiveMatrix Administrator Server Creation Wizard page is displayed, as shown in [Figure 3](#).

Figure 3 Creation Wizard



4. Click the **Finish** button. The Administrator Server Configuration: Summary page is displayed, as shown in [Figure 4](#).

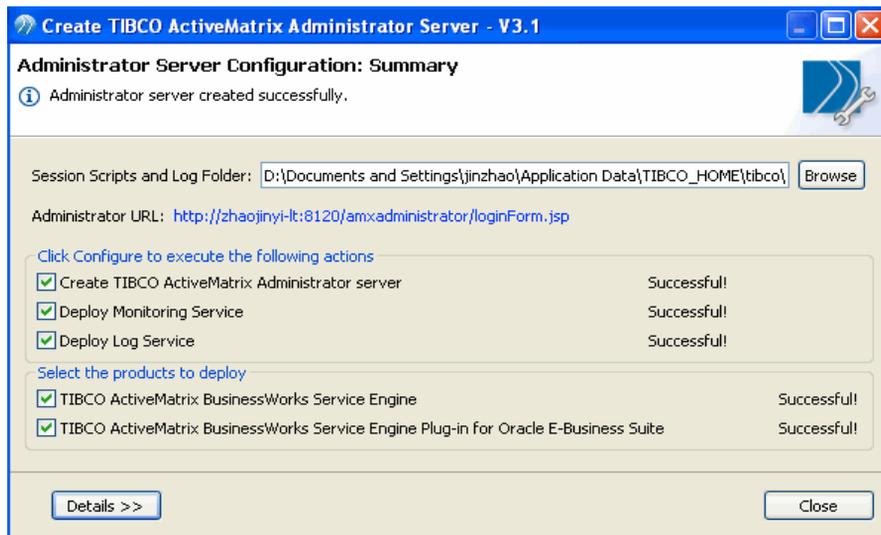
Figure 4 Administrator Server Configuration: Summary



Make sure that the TIBCO Enterprise Message Service server has been started before you click the Configure button.

5. Click the **Configure** button. The Administrator server is created successfully, as shown in [Figure 5](#).

Figure 5 Administrator Server Configured Successfully



6. Click the **Close** button to exit the configuration.

## Configuring Third-Party Drivers

This section shows how to configure the Oracle JDBC driver to a node using TIBCO Configuration Tool (TCT):



If your processes use the Oracle Business Event activity, you should also repeat the following steps to set up the AQ API JAR to the node.

1. Run `TIBCO_HOME\tct\1.1\TIBCOConfigurationTool`.

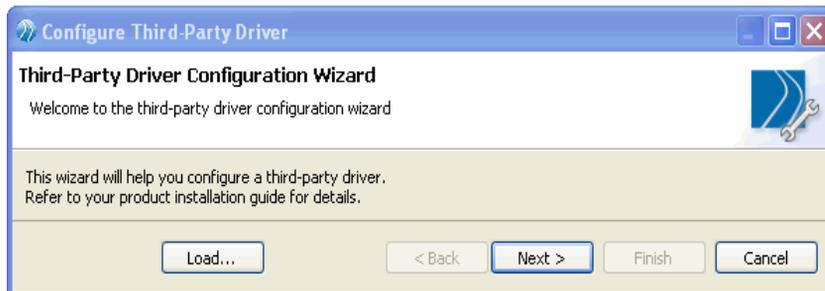
The TIBCO Configuration Folder dialog appears, as shown in [Figure 1](#).

2. Accept the default folder, type a folder name, or click the **Browse** button to select a folder. Then click the **OK** button.

The TIBCO Configuration Tool dialog appears with links to the configuration wizards, as shown in [Figure 2](#).

3. Click the **Configure Third-Party Driver** link, the TIBCO ActiveMatrix Administrator Server Creation Wizard page is displayed, as shown in [Figure 6](#).

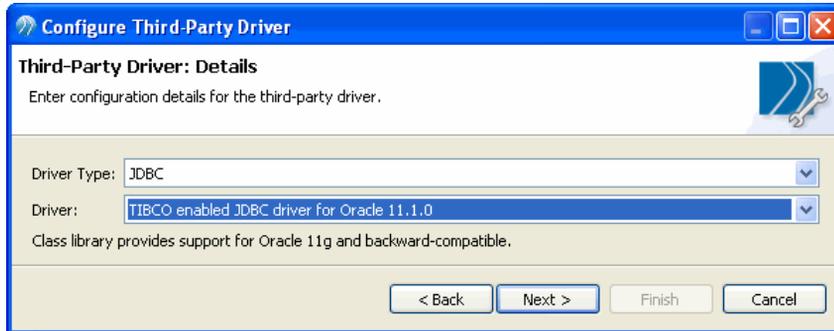
*Figure 6 Third-Party Driver Configuration Wizard*



4. Click the **Next** button.
5. Select a Driver Type and Driver from the corresponding drop-down lists, then click the **Next** button.

[Figure 7](#) shows sample screen that the TIBCO Enabled JDBC Driver For Oracle 11.1.0 driver is selected.

Figure 7 Third-Party Driver Details



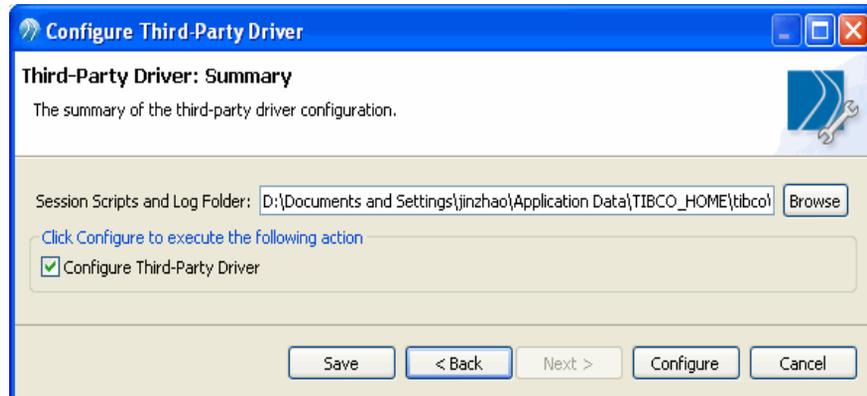
6. Click the **Browse** button, navigate to the Oracle JDBC Driver Package location, then click the **Next** button, as shown in Figure 8.

Figure 8 Third-Party Driver JAR Folder for JDBC Driver



7. Click the **Configure** button to upload the driver, as shown in Figure 9.

Figure 9 Third-Party Driver Summary



8. Click the **Close** button. The Third-Party driver uploaded successfully.

## Setting Up the TIBCO ActiveMatrix Environment

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After creating TIBCO ActiveMatrix Administrator, complete the following steps to set up the TIBCO ActiveMatrix environment:

1. Start TIBCO Enterprise Message Service (EMS) Server.
  - Right-click the **My Computer** icon on your desktop, select **Manage** from the pop-up menu.
  - Expand the **Services and Applications > Services** folder in the Computer Management window. Select and then start the **TIBCO EMS Server** service.
2. Start the predefined TIBCO host.

Run the executable named `tibcohost.exe` located in the TIBCO ActiveMatrix configuration directory:  
`TIBCO_Configuration_Folder\tibcohost\TibcohostInstance_name\host\bin.`
3. Start TIBCO ActiveMatrix Administrator.
  - a. Launch a web browser and enter the Administrator URL, **`http://host_name:port_number/amxadministrator/loginForm.jsp`**, in the address bar to start the TIBCO ActiveMatrix Administrator Server.
  - b. Enter the username and password to log in. The default username is `root`, and the password is `t`.

## Adding Third-Party Drivers to a Node

The following steps show how to add the Oracle JDBC driver to the node where the application will be set using TIBCO ActiveMatrix Administrator:



If your processes use the Oracle Business Event activity, you should also repeat the following steps to set up the AQ API JAR to the node.

1. Open TIBCO ActiveMatrix Administrator.
2. Select **Infrastructure > Nodes**.
3. Select the node, for example, *DevNode*, where the application will be set.
4. Click the **Configuration** tab under the selected node, as shown in [Figure 10](#).
5. Click the **Add** button, and select the **TIBCO Enabled JDBC Driver For Oracle** item in the Name column to add the JDBC JAR.

Figure 10 Add Third-Party Driver using ActiveMatrix Administrator

The screenshot shows the 'DevNode' configuration page in TIBCO ActiveMatrix Administrator. The 'Configuration' tab is selected, and the 'Features' section is expanded. A table lists the installed features and the ones being added. The table has columns for Name, Type, Version, and Status.

Name	Type	Version	Status
TIBCO ActiveMatrix BusinessWorks Service Engine Plug-in for Oracle E-	runtime	1.1.0.001	Installed
TIBCO ActiveMatrix Platform	runtime	1.1.200.090	Installed
TIBCO ActiveMatrix BusinessWorks Service Engine	runtime	5.9.200.022	Installed
com.tibco.tpcl.gen.oracle.jdbc.feature	runtime	11.2.100.001	
com.tibco.tpcl.gen.oracle.aq.feature	runtime	11.1.0.001	

6. Click the **Save** button to save the configuration.
7. Click the **Apply With Resolve** button to install the new features to the node.

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