

TIBCO ActiveMatrix® Runtime UDDI Server

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

TIBCO ActiveMatrix Runtime UDDI Server provides an integrated UDDI registry that can be used by TIBCO ActiveMatrix products or other products that use the standard UDDI V3 API.

This guide explains how to install TIBCO ActiveMatrix Runtime UDDI Server on all supported platforms.

Topics

- [Related Documentation, page 6](#)
- [Typographical Conventions, page 8](#)
- [Terminology and Acronyms, page 10](#)
- [How to Contact TIBCO Support, page 11](#)

Related Documentation

This section lists documentation resources you may find useful.

TIBCO ActiveMatrix Runtime UDDI Server Documentation

The following documents form the TIBCO ActiveMatrix Runtime UDDI Server documentation set:

- *TIBCO ActiveMatrix Runtime UDDI Server Installation* Read this manual for instructions on site preparation and installation.
- *TIBCO ActiveMatrix Runtime UDDI Server Administrator's Guide* Read this manual for instructions on configuring the product by administrator users.
- *TIBCO ActiveMatrix Runtime UDDI Server User's Guide* Read this manual for instructions on using the product.
- *TIBCO ActiveMatrix Runtime UDDI Server 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.

Third-Party Documentation

The following documents are related to the TIBCO ActiveMatrix Runtime UDDI Server.

- *UDDI Spec V3.0* This document describes the web services and behaviors of all instances of a UDDI registry. It is available from the following web site: <http://uddi.org/pubs>
- *Oracle Database Administrator's Guide* This manual provides information about operating an Oracle database. It is available from the Oracle web site: http://download.oracle.com/docs/cd/B14117_01/server.101/b10739.pdf
- *MySQL 5.1 Reference Manual* This manual provides information about operating a MySQL database. It is available from the MySQL web site: <http://dev.mysql.com/doc/refman/5.1/en/>
- *Server Products and Technologies for SQL Server* This online book provides information about operating a SQL Server database. It is available from the SQL Server web site: <http://technet.microsoft.com/en-us/library/default.aspx>
- *Sybase Adaptive Server Enterprise (Archive)* This online book provides information about operating a Sybase ASE database. It is available from the Sybase web site:

<http://sybooks.sybase.com/nav/summary.do?prod=9938&lang=en&prodName=Adaptive+Server+Enterprise&archive=0&Submit.x=25&Submit.y=16>

- *IBM DB2 Information Center* You can find information about operating an IBM DB2 database from the IBM web site:
<http://publib.boulder.ibm.com/infocenter/db2luw/v8/index.jsp>
- *HSQldb User Guide* This manual provides information about operating an HSQldb. It is available from the HSQldb web site:
<http://www.hsqldb.org/doc/guide/>
- *JBoss Application Server Documentation* You can find information about configuring the JNDI resource for the JBoss application server in the documentation. It is available from the JBoss web site:
<http://www.jboss.org/jbossas/docs/>.
- *Apache Tomcat 6.0 JNDI Resources HOW-TO* This online book provides information about configuring the JNDI resource for the Apache Tomcat server. It is available from the Apache Tomcat web site:
<http://tomcat.apache.org/tomcat-6.0-doc/jndi-resources-howto.html>
- *IBM WebSphere Application Server, Version 7.0 Information Center* You can find information about configuring the JNDI resource for the IBM Websphere application server from the IBM web site:
<http://publib.boulder.ibm.com/infocenter/wasinfo/v7r0/index.jsp>




Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
<i>TIBCO_HOME</i> <i>ENV_HOME</i> <i>UDDI_HOME</i>	<p>Many TIBCO products must be installed within the same home directory. This directory is referenced in documentation as <i>TIBCO_HOME</i>. The value of <i>TIBCO_HOME</i> depends on the operating system. For example, on Windows systems, the default value is C:\tibco.</p> <p>Other TIBCO products are installed into an installation environment. Incompatible products and multiple instances of the same product are installed into different installation environments. The directory into which such products are installed is referenced in documentation as <i>ENV_HOME</i>. The value of <i>ENV_HOME</i> depends on the operating system. For example, on Windows systems the default value is C:\tibco.</p> <p>TIBCO ActiveMatrix Runtime UDDI Server installs into a directory within <i>TIBCO_HOME</i>. This directory is referenced in documentation as <i>UDDI_HOME</i>. The value of <i>UDDI_HOME</i> depends on the operating system. For example, on Windows systems, the default value is C:\tibco\RuntimeUDDIServer\3.1</p>
<i>USER_HOME</i>	<p>The home directory on your machine is referenced in documentation as <i>USER_HOME</i>. The value of <i>USER_HOME</i> depends on the operating system. For example, on Windows systems, the default value is C:\Documents and Settings\yourLoginName directory.</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>
bold code font	<p>Bold code font is used in the following ways:</p> <ul style="list-style-type: none">• In procedures, to indicate what a user types. For example: Type admin.• In large code samples, to indicate the parts of the sample that are of particular interest.• In command syntax, to indicate the default parameter for a command. For example, if no parameter is specified, MyCommand is enabled: MyCommand [enable disable]

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"> • To indicate a document title. For example: See <i>TIBCO ActiveMatrix BusinessWorks Concepts</i>. • To introduce new terms. For example: A portal page may contain several portlets. <i>Portlets</i> are mini-applications that run in a portal. • To indicate a variable in a command or code syntax that you must replace. For example: <code>MyCommand <i>PathName</i></code>
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.

Terminology and Acronyms

The following acronyms are used in this manual:

Table 2 Terminology and Acronyms

Acronym	Meaning
API	Application Programming Interface
GUI	Graphical User Interface
UDDI	Universal Description, Discovery, and Integration
XML	Extensible Markup Language

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.

Chapter 1

Installing TIBCO ActiveMatrix Runtime UDDI Server

This chapter explains how to install TIBCO ActiveMatrix Runtime UDDI Server on all supported platforms.

Topics

- [Installation Overview, page 2](#)
- [Installing the Software, page 5](#)
- [Uninstalling the Software, page 16](#)
- [Frequently Asked Questions, page 17](#)

Installation Overview

TIBCO ActiveMatrix Runtime UDDI Server can be installed independent of other TIBCO products. Other TIBCO products can be installed before or after installing TIBCO ActiveMatrix Runtime UDDI Server.

Installation Modes

Three installation modes are available: GUI, console, and silent. Each mode is documented later in this book.

Installation Types

Two installation types are available, typical or custom. The typical installation type installs all products in the package on the specified platform. As described next, the custom installation type allows you to select products and components.

- **Server** Installs TIBCO ActiveMatrix Runtime UDDI Server.
- **Client** Installs the client that provides Ant-based command line tools to publish and query services in the UDDI Server.
- **Documentation** Installs *TIBCO ActiveMatrix Runtime UDDI Server Administrator's Guide*, *TIBCO ActiveMatrix Runtime UDDI Server User's Guide*, *TIBCO ActiveMatrix Runtime UDDI Server Installation*, and *TIBCO ActiveMatrix Runtime UDDI Server Release Notes*.

Supported Platforms

The following platforms are supported:

Microsoft Windows (x86)

- Windows 7 (x86 32-bit, 64-bit)
- Windows Server 2003 (x86 32-bit, 64-bit)
- Windows Server 2008 (x86 32-bit, 64-bit)
- Windows XP Professional (x86 32-bit)

UNIX

- Solaris 9, 10 (SPARC 32-bit, 64-bit)

- Solaris 10 (x86 32-bit, 64-bit)
- Linux Kernel 2.6.9 glibc2.3.4
 - Red Hat Enterprise Linux 4 (x86 32-bit, 64-bit)
 - Red Hat Enterprise Linux 5 (x86 32-bit, 64-bit)
 - Novell SUSE Linux Enterprise Server 10 SP1 (x86 32-bit, 64-bit)
- IBM AIX 5.3, 6.1 POWER (64-bit)
- HP-UX 11i V3 Update 2 (Itanium 64-bit)



Before installing TIBCO ActiveMatrix Runtime UDDI Server on the Linux platforms, you need to make sure that the compatibility C++ library `libstdc++.so.5` has been installed.

System Memory

A minimum of 500 MB of physical memory is required.

Installer Account

Microsoft Windows

You must have administrator privileges for the machine on which TIBCO ActiveMatrix Runtime UDDI Server 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.

UNIX

TIBCO ActiveMatrix Runtime UDDI Server can be installed by a regular (non-root) user and a superuser (root). Different users can install the same product at different locations.

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

Installer Log File

The installer log file is written to the `USER_HOME/.TIBCO` directory.

Disk Space

When the TIBCO ActiveMatrix Runtime UDDI Server package is unpacked, it is extracted into a temporary folder.

Temporary Disk Space Required by the Installer

The installer requires up to 200MB of free space in the temporary folder. On Microsoft Windows, the temporary directory location is `USER_HOME\Local Settings\Temp`.

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

```
TIBCOUniversalInstaller -is:tempdir new_tmp
```

where *new_tmp* has sufficient free disk space.

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

Disk Space After Installation

TIBCO ActiveMatrix Runtime UDDI Server consumes 700MB of free space in the `TIBCO_HOME` directory.

Installing the Software

To install TIBCO ActiveMatrix Runtime UDDI Server, use one of the following modes:

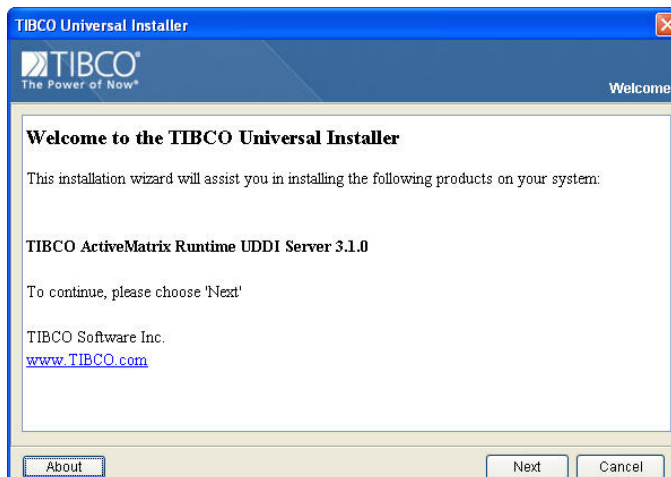
- [Installing in GUI Mode on page 5](#)
- [Installing in Console Mode on page 12](#)
- [Installing in Silent Mode on page 12](#)

Installing in GUI Mode

To install TIBCO ActiveMatrix Runtime UDDI Server in GUI mode:

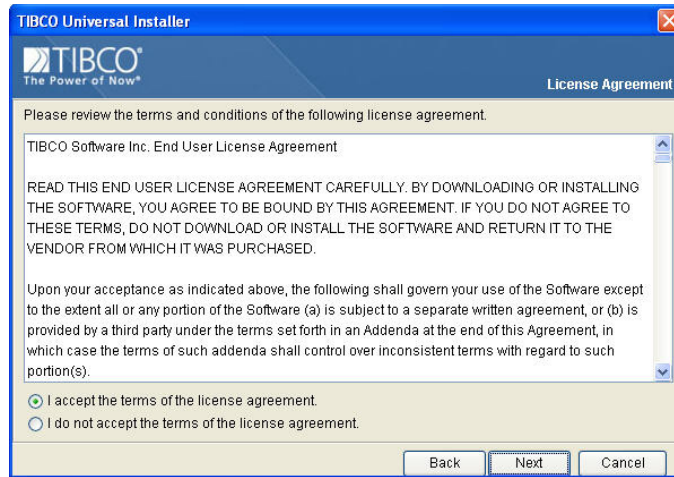
1. Open the physical media or download the TIBCO ActiveMatrix Runtime UDDI Server package.
2. Extract the TIBCO ActiveMatrix Runtime UDDI Server archive file to a temporary directory *TEMP_DIR*.
3. Navigate to the *TEMP_DIR* directory that contains the universal installer.
4. Run **TIBCOUniversalInstaller**.
5. When the TIBCO Universal Installer dialog opens, as shown in [Figure 1](#), click the **Next** button.

Figure 1 Installer - Welcome to the TIBCO Universal Installer



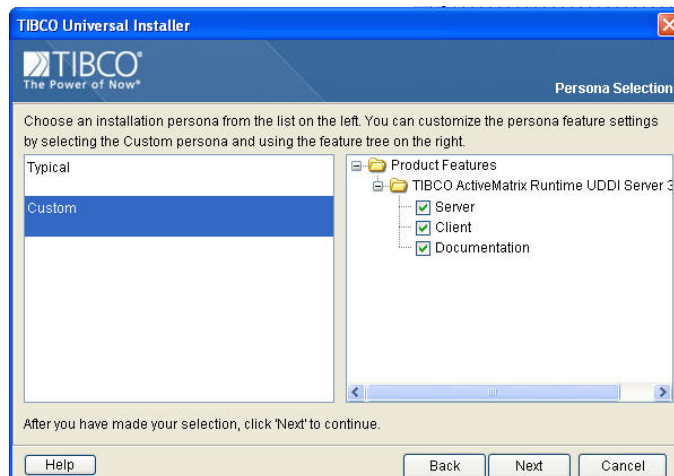
6. In the License Agreement page, as shown in [Figure 2](#), read through the license text, and click the **I accept the terms of the license agreement** radio button, then click the **Next** button.

Figure 2 Installer - License Agreement



7. The Personal Selection page will then appear, as shown in [Figure 3](#).

Figure 3 Installer - Personal Selection



In the left column, you can choose one of the following options:

- Select **Typical** to install all features.
- Select **Custom** to choose the features to install in the right column. Uncheck the checkboxes next to the components you do not want to be installed and click the **Next** button.

Click the **Next** button.

8. In the TIBCO Installation Home page, as shown in [Figure 4](#), choose one of the following options, and then click the **Next** button.
 - Select the **Create a new TIBCO_HOME** radio button to create a new environment. In the Directory field, enter or select the path to an empty directory. In the Name field, enter a name of your choice.
 - Select the **Use an existing TIBCO_HOME** radio button to install TIBCO ActiveMatrix Runtime UDDI Server into an existing environment.



If you pre-install Hibernate using a full Hibernate installer, you need to select the **Use an existing TIBCO_HOME** option here and go to step 12.

Figure 4 installer - TIBCO Installation Home

TIBCO Universal Installer

TIBCO
The Power of Now®

TIBCO Installation Home

Please choose to either create a new TIBCO installation environment or select an existing TIBCO installation environment. An installation environment (TIBCO_HOME) is top level installation directory for TIBCO products.

☒ Create a new TIBCO_HOME

Directory

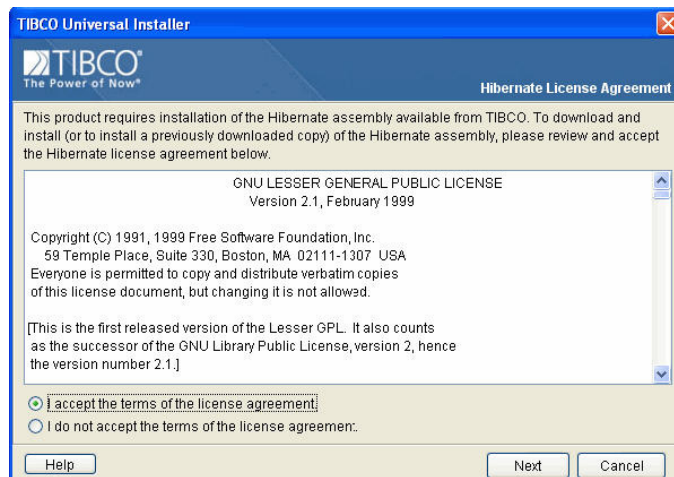
Name

☐ Use an existing TIBCO_HOME

After you have made your selection, click 'Next' to continue.

9. In the Hibernate License Agreement page, as shown in [Figure 5](#), read through the license text, and click the **I accept the terms of the license agreement** radio button, then click the **Next** button.

Figure 5 Installer - Hibernate License Agreement



10. In the Download Hibernate page, you can choose to download the Hibernate assembly from TIBCO or specify you have previously downloaded the Hibernate assembly, as shown in [Figure 6](#).

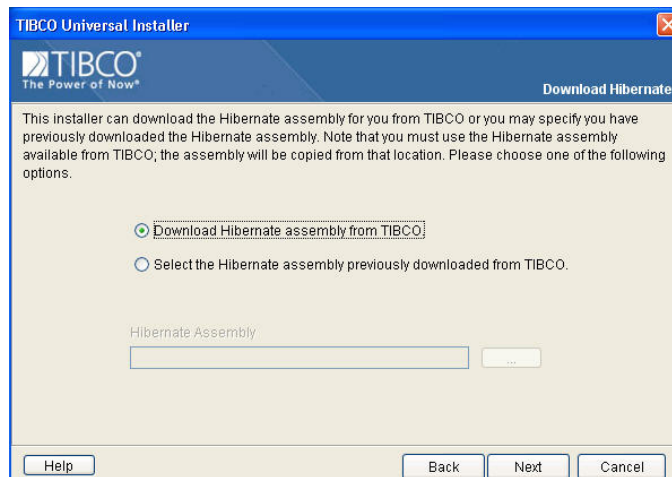
- Click the **Download Hibernate assembly from TIBCO** radio button and then click the **Next** button, you can automatically download the Hibernate.
- Click the **Select the Hibernate assembly previously downloaded from TIBCO** button, you can select an existing Hibernate Release unit on your machine, and then click the **Next** button to skip to step 12.



To get a Hibernate Release unit separately, download it from the following website:

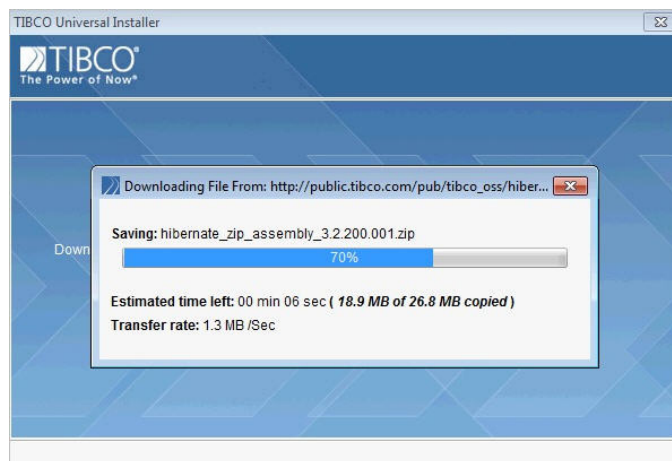
http://public.tibco.com/pub/tibco_oss/hibernate/hibernate_zip_assembly_3.2.200.001.zip

Figure 6 Installer - Download Hibernate



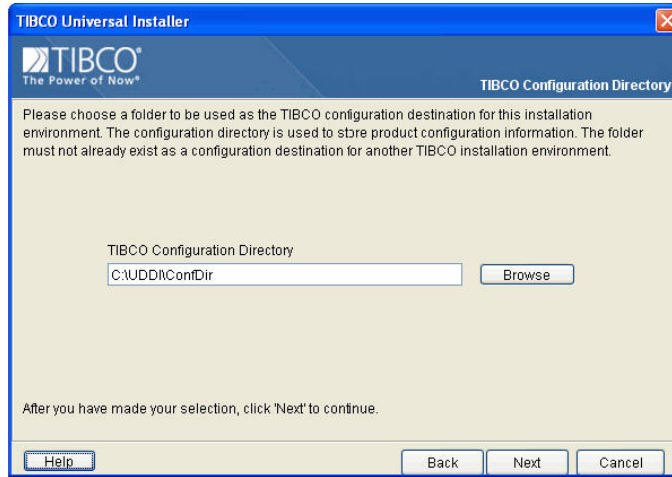
11. The installer automatically downloads the Hibernate ZIP assembly from the public download site: http://public.tibco.com/pub/tibco_oss/Hibernate/, as shown in Figure 7.

Figure 7 Installer - Downloading the Hibernate Package



12. After downloading the Hibernate package, the TIBCO Configuration Directory screen appears, as shown in Figure 8. Select a directory to be used as the TIBCO configuration destination for this installation environment. The configuration directory is used to store product configuration information. Click the **Next** button.

Figure 8 Installer - TIBCO Configuration Directory

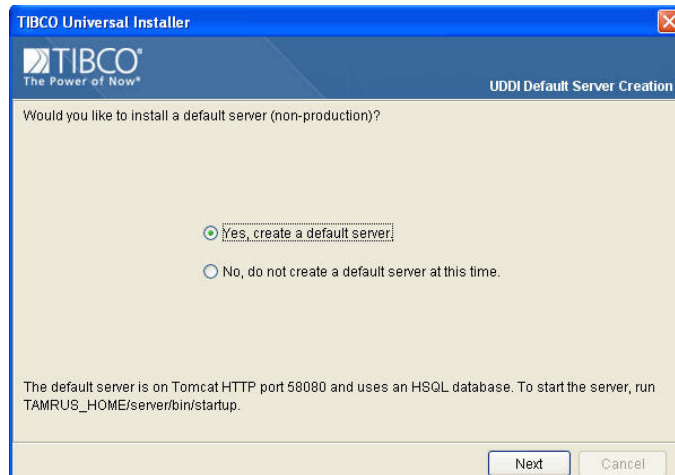


The directory you selected here must not contain the TIBCO configuration destination for another TIBCO installation environment.

In Microsoft Windows 7, the default TIBCO Configuration Directory is *System_Disk:\ProgramData\TIBCO_HOME*. All the files in this directory are hidden files by default, and you cannot execute some Ant-based tasks under this directory because of the write protection. You are strongly recommended to change the TIBCO Configuration Directory to other directory, for example: *C:\TIBCOConfig*.

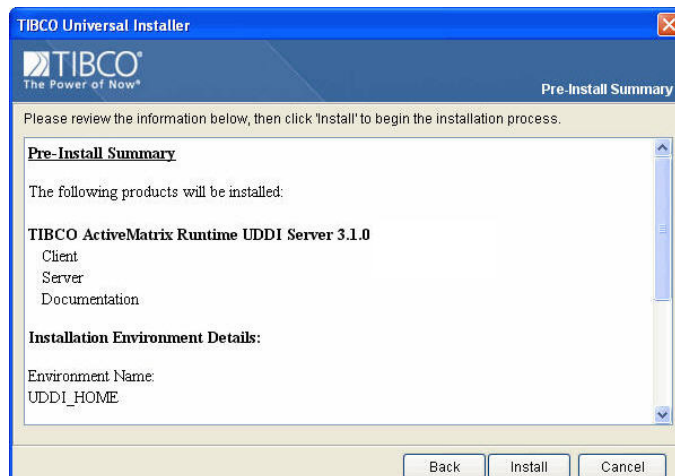
13. In the UDDI Default Server Creation page, as shown in [Figure 9](#), you can choose to install a default server for the TIBCO ActiveMatrix UDDI Server. The default server is on Tomcat with the HTTP port 58080 and uses an HSQL database. To start the server, run *UDDI_HOME/server/bin/startup*. Click the **Next** button.

Figure 9 Installer - UDDI Default Server Creation



14. In the Pre-Install Summary page, you can review the installation information, as shown in Figure 10. Click the **Install** button to install the TIBCO ActiveMatrix UDDI Server.

Figure 10 Installer - Pre-Install Summary



15. After the installation, the Post Install Summary screen appears. Click the **Finish** button to close the installer window.

Installing in Console Mode

To install the software in console mode:

1. Open the physical media or download the TIBCO ActiveMatrix Runtime UDDI Server package.
2. Extract the TIBCO ActiveMatrix Runtime UDDI Server archive file to a temporary directory.
3. Using a console window, navigate to the temporary directory that contains the universal installer.
4. Run **TIBCOUniversalInstaller -console**.
5. Complete the installation by responding to the console window prompts.

Installing in Silent Mode

The following procedure explains how to install TIBCO ActiveMatrix Runtime UDDI Server 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'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 (see the `USER_HOME/.TIBCO` directory).

1. Open the physical media or download the TIBCO ActiveMatrix Runtime UDDI Server package.
2. Extract the TIBCO ActiveMatrix Runtime UDDI Server 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.silent` file and name the copied file. For more information about the `TIBCOUniversalInstaller.silent` file, refer to [Sample TIBCOUniversalInstaller.silent file on page 13](#).
5. Open the copied file using a text editor.
 - Update the install location, and features to install. When specifying the `installationRoot` entry key, the syntax for the value must match the value specified when `TIBCO_HOME` was defined. For example, if `TIBCO_HOME` is specified as `C:\tibco`, you must specify `C:\tibco` for the

installationRoot entry key. You must not mix case; the installationRoot entry key syntax must match that of the *TIBCO_HOME* value exactly.

- When specifying the configDirectoryRoot entry key, the configuration root directory can be set to the same as TIBCO root. If the specified configuration root does not exist, the installer will create it first if providing installer has permission to create such a directory, and then the RuntimeUDDIServer directory will be appended to the specified configuration root.
- When specifying the createDefaultServer entry key, if it is set to true, it installs a server for demonstration purpose. The server runs on Apache Tomcat, and uses files based on HSQLDB. The default server can be accessed from `http://Host:58080/uddi` and `http://Host:58080/uddisc`.

The default server will put the HSQLDB data files into `configDirectoryRoot/tibco/cfgmamt/RuntimeUDDIServer/data` and put log files, such as `uddi.log`, `udd-access.log` into `configDirectoryRoot/tibco/cfgmamt/RuntimeUDDIServer/logs`

6. Run: **TIBCOUniversalInstaller -silent -V responseFile=myFileName.silent**



For Windows platform, run **TIBCOUniversalInstaller.cmd -silent -V responseFile=myFileName.silent**

For Unix platform, run **TIBCOUniversalInstaller-platformAcronymn.bin -silent -V responseFile=myFileName.silent**

If you are using the `TIBCOUniversalInstaller.silent` file, you need not supply the file name and can run: **TIBCOUniversalInstaller -silent**.

A line similar to the following is written to the installer log file when installation is complete:

```
Install, com.tibco.installer.util.TIBCOInstaller, dbg.Debug,
The installation has completed. Please check the log file for
additional information.
```

Sample TIBCOUniversalInstaller.silent file

```
<?xml version="1.0"?>
<!DOCTYPE properties SYSTEM
"http://java.sun.com/dtd/properties.dtd">
<properties>
<comment>---Universal Installer Silent Installation
Properties---</comment>
```

```

<!--accept the license agreement-->
<entry key="acceptLicense">true</entry>

<!--the root installation directory-->
<!--if the product does not support multiple instances and
TIBCO_HOME has already been set then-->
<!--this value is ignored and the existing TIBCO_HOME is used as
the installation root-->
<entry key="installationRoot">C:\TIBCO</entry>

<!--If multiple environments are supported, create a new one or use
and existing one-->
<!--If the product does not support multiple environments, then the
values below are ignored-->
<entry key="createNewEnvironment">false</entry>

<!--If using an existing environment then the installationRoot AND
environmentName MUST match a pre-existing environment-->
<!--If createing a new environment then the installationRoot AND
environmentName MUST BE UNIQUE and not match a pre-existing
environment-->
<entry key="environmentName">TIBCO-HOME-uddiserver</entry>
<entry key="environmentDesc">UDDI Server Installation</entry>

<!--Hibernate Download Details for silent mode-->
<entry key="downloadHibernate">true</entry>
<entry
key="hibernatePath">c:\temp\hibernate_zip_assembly_3.2.200.001.zip
</entry>

<!--If some install features are set to be reinstalled, do you want
to automatically reinstall them or not? -->
<entry key="reinstallFeatures">false</entry>
<entry
key="configDirectoryRoot">C:\\progData\\tibco\\TIBCO-HOME-uddiserv
er</entry>

<!--Product Specific Properties can be set below using the same
'entry key=' format as above-->

<!--Create Default Server when running in silent mode-->
<entry key="createDefaultServer">false</entry>

<!--Product Feature Settings-->

```

```
<entry key="feature_Server_uddiserver">true</entry>  
<entry key="feature_Client API_uddiserver">true</entry>  
<entry key="feature_Documentation_uddiserver">true</entry>  
  
</properties>
```

Uninstalling the Software

To uninstall the software:

1. Run the uninstaller by navigating to *TIBCO_HOME_uninstall* and run **universal_uninstall**.

When uninstalling, a pop-up windows may appear with a warning that an updated file needs to be deleted. Click the **Yes to All** button to remove the file and subsequent files in the assembly. Because pop-up windows are generated for each installed assembly, you may see multiple pop-up windows. After uninstalling the software, the uninstaller may prompt you to reboot your computer.

2. Clean up directories:

After running the uninstaller, manually delete the *RuntimeUDDIServer* directory under *TIBCO_HOME*.



On Windows platforms, click **Control Panel > Add or Remove Programs** to uninstall the software.

After uninstalling the software, the files generated during the installation cannot be removed.

Frequently Asked Questions

Why and how should I set the DISPLAY variable on Solaris for GUI mode?

The installer on Solaris must open an additional window, generally for graphics. It uses the DISPLAY environment variable to tell it on which computer to open the window. If the environment variable is not set, the installer will either wait or abort after displaying:

```
InstallShield Wizard
Initializing InstallShield Wizard...
Preparing Java(tm) Virtual Machine...
.....
.....
.....
```

The DISPLAY variable must be set to the IP address or name of the computer (on which the installer graphics window is to be displayed), followed by a screen address, which can be :0.0. For example:

```
# Bourne shell
DISPLAY=ip_address:0.0; export DISPLAY

# Korn shell
export DISPLAY=ip_address:0.0

# C-shell
setenv DISPLAY ip_address:0.0
```

For example, consider a scenario where you need to install TIBCO ActiveMatrix Service Grid on a remote Solaris machine (named *itaska*). Because you have a Solaris 5.6 machine (named *alaska*) that has a video card and monitor installed, you can run an X-window application on it. So you decide to telnet to *itaska* from *alaska*.

When you telnet to *itaska*, you will not get access to *itaska*'s monitor and will be unable to display an X-window application. That is why you must set the DISPLAY variable, which instructs the X-server to redirect all windows to the computer set in the variable. Before doing so, the computer (specified in the DISPLAY variable) must give permissions to share its monitor.

```
alaska> xhost + # give permission for all to its share monitor
alaska> telnet itaska
Welcome to HP-UX itaska 11.00
User:
Password:
itaska> export DISPLAY=alaska:0.0 # set display on alaska
itaska> unzip TIB_uddiserver_3.1.0_sol9_sparc.zip
```


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