

TIBCO ActiveMatrix® Updater Tool for Java Runtime Environment (JRE)

User's Guide

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Preface

The TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE) is a command-line utility for updating existing TIBCO ActiveMatrix Platform based installations to use JRE 1.8.

Topics

- [Related Documentation, page vi](#)
- [Typographical Conventions, page vii](#)
- [Connecting with TIBCO Resources, page x](#)

Related Documentation

This section lists documentation resources you may find useful.

TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE) Documentation

The following documents form the TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE) documentation set:

- *TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE) User's Guide* Read this manual for instructions on using the product to update existing TIBCO ActiveMatrix based installations to use JRE 1.8.
- *TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE) 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 ActiveMatrix® Service Grid software: TIBCO ActiveMatrix Service Grid is a scalable and extensible platform for developing, deploying, and managing applications that conform to a service-oriented architecture.
- TIBCO ActiveMatrix® Service Bus software: TIBCO ActiveMatrix Service Bus is a lightweight enterprise service bus that helps organizations bridge the mediation gap in their SOA infrastructure. It reduces complexity and increases flexibility and reuse by replacing hard-coded service dependencies with configuration, and can be used to quickly onboard services from a third-party environment or a TIBCO-based infrastructure.

Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
<i>ENV_NAME</i> <i>TIBCO_HOME</i>	<p>TIBCO products are installed into an installation environment. A product installed into an installation environment does not access components in other installation environments. Incompatible products and multiple instances of the same product must be installed into different installation environments.</p> <p>An installation environment consists of the following properties:</p> <ul style="list-style-type: none"> • Name Identifies the installation environment. This name is referenced in documentation as <i>ENV_NAME</i>. On Microsoft Windows, the name is appended to the name of Windows services created by the installer and is a component of the path to the product shortcut in the Windows Start > All Programs menu. • Path The folder into which the product is installed. This folder is referenced in documentation as <i>TIBCO_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 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: <code>Ctrl+C</code>.</p> <p>Key names separated by a comma and space indicate keys pressed one after the other. For example: <code>Esc, Ctrl+Q</code>.</p>
	<p>The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances.</p>
	<p>The tip icon indicates an idea that could be useful, for example, a way to apply the information provided in the current section to achieve a specific result.</p>
	<p>The warning icon indicates the potential for a damaging situation, for example, data loss or corruption if certain steps are taken or not taken.</p>

Table 2 Syntax Typographical Conventions

Convention	Use
[]	<p>An optional item in a command or code syntax.</p> <p>For example:</p> <pre>MyCommand [optional_parameter] required_parameter</pre>
	<p>A logical OR that separates multiple items of which only one may be chosen.</p> <p>For example, you can select only one of the following parameters:</p> <pre>MyCommand para1 param2 param3</pre>

Table 2 *Syntax Typographical Conventions*

Convention	Use
{ }	<p>A logical group of items in a command. Other syntax notations may appear within each logical group.</p> <p>For example, the following command requires two parameters, which can be either the pair param1 and param2, or the pair param3 and param4.</p> <pre>MyCommand {param1 param2} {param3 param4}</pre> <p>In the next example, the command requires two parameters. The first parameter can be either param1 or param2 and the second can be either param3 or param4:</p> <pre>MyCommand {param1 param2} {param3 param4}</pre> <p>In the next example, the command can accept either two or three parameters. The first parameter must be param1. You can optionally include param2 as the second parameter. And the last parameter is either param3 or param4.</p> <pre>MyCommand param1 [param2] {param3 param4}</pre>

Connecting with TIBCO Resources

How to Join TIBCOCommunity

TIBCOCommunity 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. TIBCOCommunity offers forums, blogs, and access to a variety of resources. To register, go to <http://www.tibcommunity.com>.

How to Access TIBCO Documentation

You can access TIBCO documentation here:

<https://docs.tibco.com>

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For comments or problems with this manual or the software it addresses, 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 **Installation and Uninstallation**

This chapter provides a quick introduction of the product and explains how to install and uninstall the utility.

Topics

- [Introduction, page 2](#)
- [Installation Overview, page 3](#)
- [Installation Requirements, page 5](#)
- [Installation, page 7](#)
- [Uninstallation, page 10](#)

Introduction

The TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE) is a command-line utility for updating existing TIBCO ActiveMatrix Platform based installations to use JRE 1.8. See the readme file for a list of all required and optional supported software products.

For more information, see [Using TIBCO ActiveMatrix Updater Tool for Java Runtime Environment \(JRE\)](#), page 13.

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.

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

Both regular (non-root) and superuser (root) can install this product in UNIX platform. Make sure that the same installer account is used to install all TIBCO ActiveMatrix 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 your 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.
- Information related to the Ant scripts that are executed by the installer.

Installation Requirements

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.

Temporary Disk Space Required by the Installer

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 when you run the installer, choose a different temp dir by using the following option:

`-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 the disk space is reduced because of another process running simultaneously with the installer, the installer may fail with an error message.

While installing, avoid running other processes that use disk space in the product home location.

Disk Space After Installation

This product uses approximately 9.6 MB of space under `TIBCO_HOME`.

System Memory Requirements

A minimum of 2 GB of physical memory is required.

Supported Operating Systems

Refer to the readme file for the following:

- Supported operating systems, their versions, and required patches
- All required and optional supported software products

Installation

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

- [GUI Mode, page 7](#)
- [Console Mode, page 8](#)
- [Silent Mode, page 8](#)

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. You can do so in one of the following ways:
 - Double-click the installer icon.
 - On the command prompt, provide the absolute path of the installer file without specifying any options. The installer defaults to GUI mode.
5. On the Welcome dialog, click **Next**.
6. Read through the license text when the License Agreement dialog appears, select **I Accept The Terms of The License Agreement** and then click **Next**.
7. On the TIBCO Installation Home dialog, choose an installation environment.

An installation environment isolates product installations. A product installed in an installation environment does not access components in other installation environments. An installation environment consists of a name and a path.

Using the **Use An Existing TIBCO_HOME** option, you must choose an existing environment in which TIBCO ActiveMatrix Service Grid or TIBCO ActiveMatrix Service Bus products have been installed. To install the product into an existing installation environment, select the environment from the drop-down list.

Click **Next**.

8. From the list on the left, select an installation profile. The Typical profile is selected by default. To customize the profile feature settings, check the **Customize Installation** checkbox and use the feature tree on the right.

Click **Next**.

9. Verify the list of products selected to be installed in the Pre-Install Summary dialog.
10. Click the **Install** button to start the installation process.
11. Review the information listed in the Post-Install Summary dialog.

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 the following commands:
 - **Windows** `TIBCOUniversalInstaller.cmd -console`
 - **UNIX** `./TIBCOUniversalInstaller-platform.bin -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 input 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-amx-jre-updater_version_number.silent` file.

The `TIBCOUniversalInstaller-amx-jre-updater_version_number.silent` file is packaged in the directory that contains the universal installer. Before launching the silent installation, edit the file containing the information of your environment. The file includes comments that describe the installation properties you can set. While you can use the `TIBCOUniversalInstaller-amx-jre-updater_version_number.silent` file, it is a good practice to make a copy of the file with a different name, and use that file for the silent installation.

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-amx-jre-updater_*version_number*.silent file
and rename the file.
5. Using a text editor, open the copied file. You may need to update the install
location and features to install.
 - Update the install location. TIBCO ActiveMatrix Updater Tool for Java
Runtime Environment (JRE) must be installed in the same directory where
TIBCO ActiveMatrix is installed. The default location is:

```
<entry key="installationRoot">C:\tibco</entry>
```
 - Update features to install. Set the features that you want to install to true.
6. Run the following:
 - **Windows** TIBCOUniversalInstaller.cmd -silent -V
responseFile="myfilename.silent"
 - **UNIX** TIBCOUniversalInstaller.bin -silent -V
responseFile="myfilename.silent"

Uninstallation

This section describes how to uninstall this product in the GUI mode and the Console mode.

GUI Mode

To uninstall this product:

1. Shut down all running TIBCO applications.
2. Navigate to *TIBCO_HOME*/tools/universal_installer and run TIBCOUniversalInstaller.
3. In the TIBCO Installation Manager page, perform the following steps:
 - Select **Uninstall Products From A TIBCO Home Location**.
 - Select the *TIBCO_HOME* location from the **TIBCO Home Location** drop-down list.

Click **Next**.

4. The Welcome dialog appears. Click **Next**.
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 under *TIBCO_HOME*.

Click **Next**.

6. If you selected **Custom Uninstall**, select the checkboxes for products to uninstall, and then click **Uninstall**.
7. When prompted about clean up of the /tools directory, click **Yes, clean it up**.
8. Review the Pre-Uninstall Summary and click **Uninstall** to start the uninstallation process.
9. Review the Post-Uninstall Summary and click **Finish** to exit the uninstall wizard.

Console Mode

To uninstall this product in 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:
 - **Windows** `TIBCOUniversalInstaller.exe -console`
 - **UNIX** `./TIBCOUniversalInstaller-platform.bin -console`
3. Complete the uninstallation by responding to the console window prompts.

Chapter 2

Using TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE)

This chapter explains how to use the TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE). This tool should only be used to switch to JRE 1.8 in case of the TIBCO ActiveMatrix family of products.

Topics

- [Product Overview, page 14](#)
- [Approach, page 15](#)
- [Invoking the Tool, page 20](#)
- [Modes of Operation, page 22](#)
- [Commands, page 23](#)
- [Discover Mode, page 24](#)
- [Update Mode, page 25](#)
- [Reverting to the Previous Version of the JRE, page 30](#)
- [The Back up of Files, page 31](#)
- [Logging, page 32](#)

Product Overview

The TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE) is a command-line utility for updating existing TIBCO ActiveMatrix Platform based installations to use JRE 1.8. See the readme file for a list of all required and optional supported software products.

The utility operates against the CLASSPATH .tra files in TIBCO_HOME (for versions 3.1.5, 3.2.0, and 3.3.0). In the given TIBCO_HOME, the tool operates only on the CLASSPATH .tra files that are relevant and known to the TIBCO ActiveMatrix Platform based products.

Modes

The TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE) works in two modes:

- Discover mode — Discovers the various "TIBCO ActiveMatrix Administrator Instances" for a given TIBCO_CONFIG_HOME.
- Update mode — For a given TIBCO_HOME, this mode updates the Java version in the relevant TIBCO ActiveMatrix .tra files in TIBCO_HOME.

For more information, refer to [Modes of Operation, page 22](#).

Approach

In all TIBCO ActiveMatrix installations, the path to JRE home is specified in the CLASSPATH .tra files in the TIBCO_HOME directory. When a new TIBCO Host is created, a TIBCO_CONFIG_HOME directory is created, and all the host and node files in this TIBCO_CONFIG_HOME directory point to the CLASSPATH .tra files in the corresponding TIBCO_HOME directory.



- One or more TIBCO_CONFIG_HOME directories can point to the same TIBCO_HOME directory.
- A single TIBCO_CONFIG_HOME can contain multiple "TIBCO ActiveMatrix Administrator Instances" pointing to different TIBCO_HOME directories.

The following diagrams illustrate the relationship between the files in the two directories.



In these diagrams, the:

- Diamond shaped nodes are from TIBCO_CONFIG_HOME and oval shaped are from TIBCO_HOME.
- Dark colored nodes are modified during the update to JRE 1.8.

Figure 1 TIBCO ActiveMatrix 3.1.5

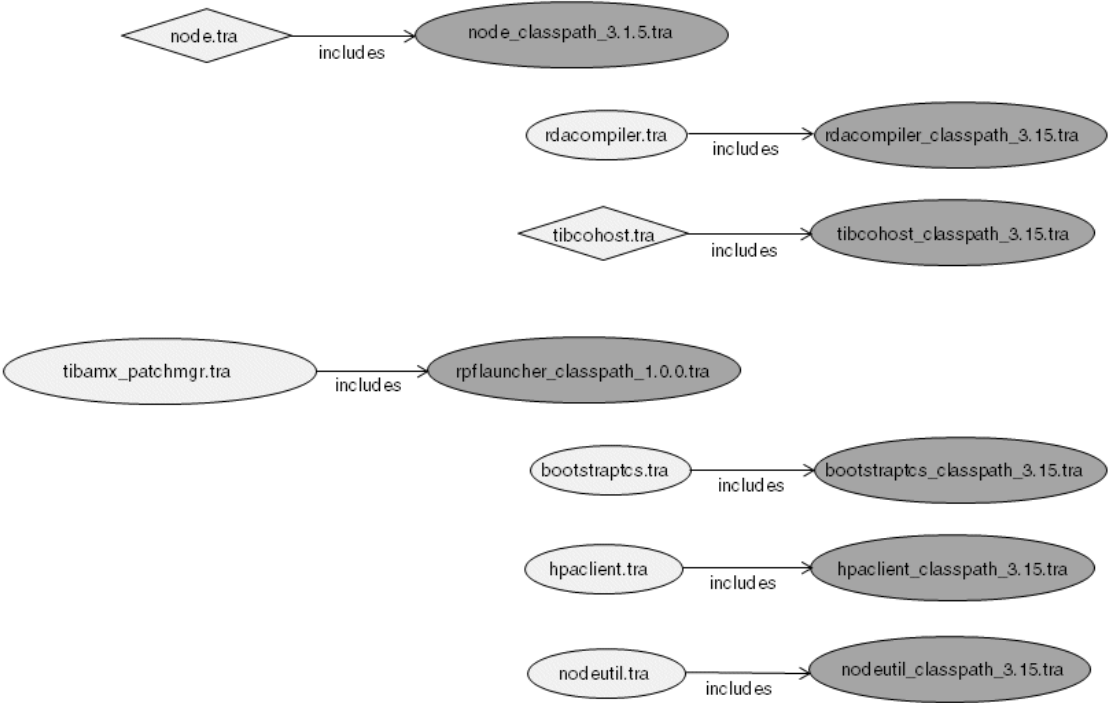


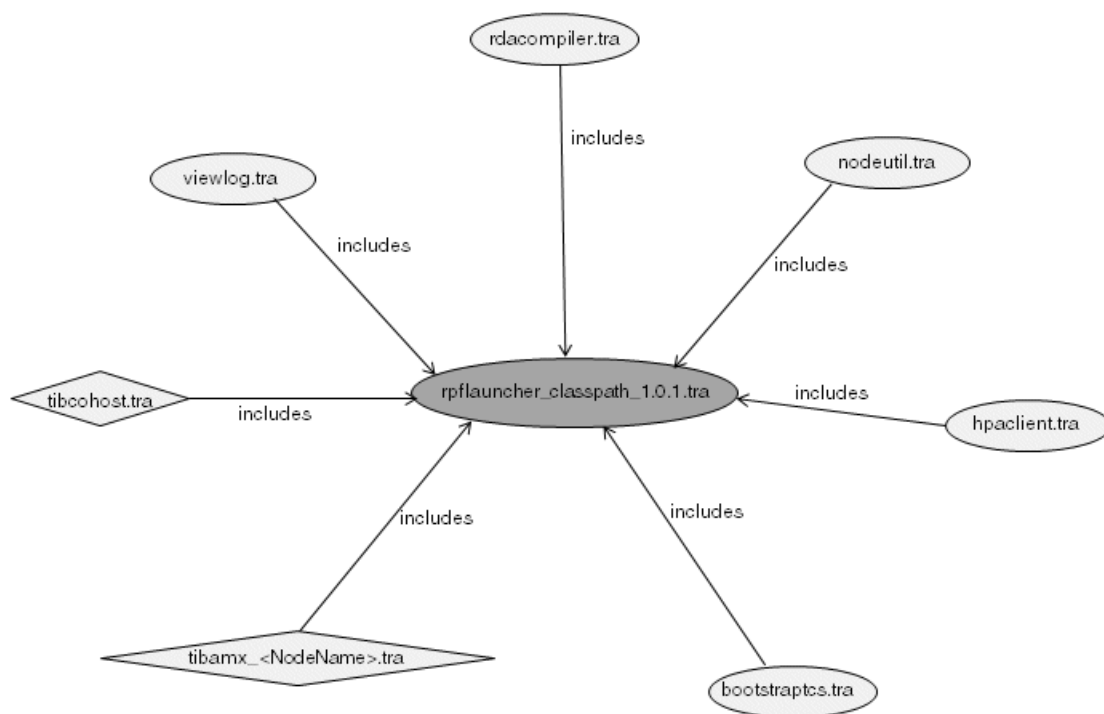
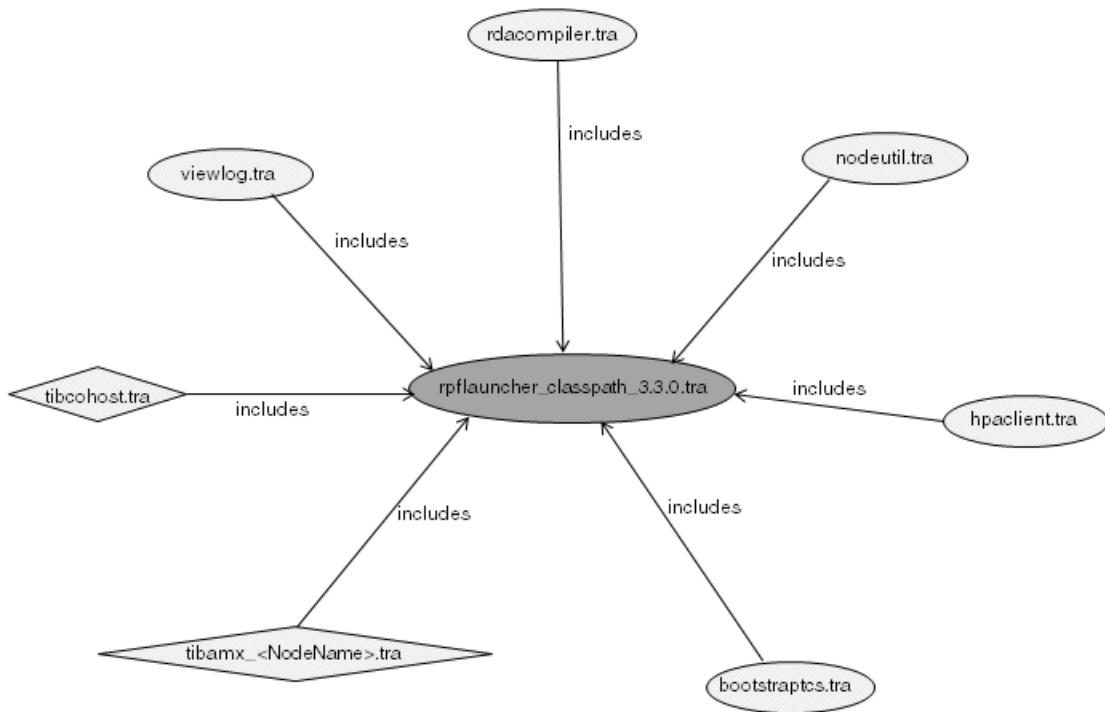
Figure 2 TIBCO ActiveMatrix 3.2.0

Figure 3 TIBCO ActiveMatrix 3.3.0



Updating the JRE path in the common CLASSPATH . tra files in the TIBCO_HOME directory updates the JRE version for all the hosts and nodes in the TIBCO_CONFIG_HOME directories pointing to it. Any new node instance created after that will also use JRE 1.8.



The TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE) updates files at TIBCO_HOME level, and not at an individual TIBCO_CONFIG_HOME level. This means that when . tra files in TIBCO_HOME are updated all the tibchosts and nodes in different TIBCO_CONFIG_HOMES that point to a particular TIBCO_HOME will be automatically updated to use JRE 1.8.

Properties Updated in CLASSPATH .tra Files

Following is a list of JRE properties in the CLASSPATH .tra files which are updated by the TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE) for a vanilla installation of the TIBCO ActiveMatrix platform:

TIBCO ActiveMatrix Version 3.1.5

```
TIBCO_HOME/amx/3.1/bin/hpaclient_classpath_3.1.5.tra :
[java.library], [tibco.env.PATH], [tibco.env.LIBPATH]
TIBCO_HOME/amx/3.1/bin/nodeutil_classpath_3.1.5.tra :
[java.library], [tibco.env.PATH], [tibco.env.LIBPATH]
TIBCO_HOME/amx/3.1/templates/rpflauncher_classpath_1.0.0.tra :
[java.library], [tibco.env.PATH]
TIBCO_HOME/tibcohost/3.1/scripts/bootsrapptcs_classpath_3.1.5.tra:
[java.library], [tibco.env.PATH], [tibco.env.LIBPATH]
TIBCO_HOME/tibcohost/3.1/scripts/rdacompiler_classpath_3.1.5.tra :
[java.library], [tibco.env.PATH], [tibco.env.LIBPATH]
TIBCO_HOME/tibcohost/3.1/scripts/node_classpath_3.1.5.tra :
[java.library], [tibco.env.PATH], [tibco.env.LIBPATH]
TIBCO_HOME/tibcohost/3.1/scripts/tibcohost_classpath_3.1.5.tra :
[java.library], [tibco.env.PATH]
```

TIBCO ActiveMatrix Version 3.2.0

```
TIBCO_HOME/amx/3.2/scripts/rpflauncher_classpath_1.0.1.tra :
[java.library], [tibco.env.PATH], [tibco.env.LIBPATH]
```

TIBCO ActiveMatrix Version 3.3.0

```
TIBCO_HOME/amx/3.3/scripts/rpflauncher_classpath_3.3.0.tra :
[java.library], [tibco.env.PATH], [tibco.env.LIBPATH]
```

Multiple Product Installation

If multiple products are installed in the same TIBCO_HOME, this utility can be run multiple times with different include files each time, specific to the different products. Multiple runs of this tool do not affect the .tra and .ini files, which have already been modified.

Invoking the Tool

Prerequisites

- Before running TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE), shutdown the `tibcohost` instance you are managing to avoid severe errors by running the "`tibcohost stop -wait true`" command. The TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE) does NOT verify that the `tibcohost` is shut down.
- When run in the update mode, the JRE Updater tool only updates files in the `TIBCO_HOME` from which it is run. However, in the discover mode, it discovers all `tibcohost` and node instances in a `TIBCO_CONFIG_HOME` irrespective of which `TIBCO_HOME` they point to.
- The operation of the utility depends on the location from where the utility is being run. For example, if the tool is run from `$TIBCO_HOME/amx/3.2/bin/`, only the `tibcohost` and node instances that are of version 3.2.0 (and not of 3.1.5 and 3.3.0) are discovered.
- The bit version of the JRE to which you are upgrading must match the bit version of the operating system architecture.

Modes

- **Interactive Mode (default)** — To execute the TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE) in the interactive mode, run the following command from `<TIBCO_HOME>/amx/<version>/bin/`.

`amx_jre_updater.exe` (Microsoft Windows)

`./amx_jre_updater` (UNIX)

The tool enters an interactive shell where you can execute all TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE) commands, including any command specific arguments. The `exit` command exits the shell.

- **Non-interactive Mode** — To execute the TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE) in a non-interactive (scripted) mode, run the following from `<TIBCO_HOME>/amx/<version>/bin/`:

`./amx_jre_updater <command> -jreHome <JRE_HOME_PATH> <Optional arguments>` (UNIX)

`amx_jre_updater.exe <command> -jreHome <JRE_HOME_PATH> <Optional arguments>` (Microsoft Windows)

where <command> is one of the TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE) commands, followed by command specific arguments.



The tool uses the existing JRE when it is invoked. The tool's own TRA is updated during every update operation.

Help

All commands in the TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE) are documented within the tool:

- Use the `help` command to get a list of all available commands:

```
amx_jre_updater.exe help (Microsoft Windows)
```

```
./amx_jre_updater help (UNIX)
```

In the interactive mode, use: `help`

- Use `help <command>` to get detailed help on a specific command, including command examples:

```
amx_jre_updater.exe help <command> (Microsoft Windows)
```

```
./amx_jre_updater help <command> (UNIX)
```

In the interactive mode, use: `help <command>`

- Use `help jreUpdaterCommands` to get detailed help on common command arguments:


```
amx_jre_updater.exe jreUpdaterCommands (Microsoft Windows)
```

```
./amx_jre_updater jreUpdaterCommands (UNIX)
```

In the interactive mode, use: `jreUpdaterCommands`

Modes of Operation

The TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE) works in two modes:

- Discover mode — Discovers the various "TIBCO ActiveMatrix Administrator Instances" for a given TIBCO_CONFIG_HOME.
 - Update mode — For a given TIBCO_HOME, this mode updates the Java version in the relevant TIBCO ActiveMatrix .tra files in TIBCO_HOME. The affected .tra files are not just those that are included by hosts and nodes, but also those tools known to TIBCO ActiveMatrix Platform based products. The output is a list of the affected .tra files, hosts, and nodes.
- 
- The update affects all instances of TIBCO_CONFIG_HOME that are pointing to that particular TIBCO_HOME.
 - After updating the TIBCO_HOME to use JRE 1.8, if any new tibcohost or node instances are created, they will use JRE 1.8 by default.

Commands

Command	Description
help	Provides a list of all available commands.
help <command>	Provides detailed information on a particular command.
discover	Discover the various "TIBCO ActiveMatrix Administrator Instances" for a given TIBCO_CONFIG_HOME.
update	Updates the specified TIBCO_HOME to the specified JRE_HOME path.
intro	Displays a detailed description including the purpose and use of the TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE).
version	Displays the version of the TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE).
viewLog	<p>The tool maintains a detailed log of all changes associated with a particular update operation.</p> <p>The viewLog command display the contents of a log file to the console.</p> <p>If no log file is specified, the default log file contents are displayed.</p> <p>The default log file is TIBCO_HOME/tibamx_jreupdater/logs/tibamx_jreupdater.log.</p> <p>viewLog -logFile <path></p> <p>where <path> is the location of the log file to be viewed.</p> <p>Example: viewLog -logFile C:\test\logFile.log</p>
clearLog	<p>Clears the log file. If no log file is specified, the default log file is cleared.</p> <p>clearLog -logFile <path></p> <p>where <path> is the location of the log file to be cleared.</p> <p>Example: clearLog -logFile C:\test\logFile.log</p>

Discover Mode

The `discover` command discovers the various "TIBCO ActiveMatrix Administrator Instances" for the specified `TIBCO_CONFIG_HOME`. The syntax of the command is:

```
discover -configHomeLocation <path>
```

Where `<path>` is the location of the `TIBCO_CONFIG_HOME` folder where the TIBCO Host instance to be updated exists.

Example:

```
discover -configHomeLocation /a/b/c
```

In the output, the Admin instances are grouped based on the `TIBCO_HOME` version.

Example (for TIBCO ActiveMatrix 3.1.5)

```
> discover -configHomeLocation C:\test
```

The output is:

Following is a list of TIBCO ActiveMatrix Administrator Instances

```
TIBCO_HOME Location: C:/test/amx3
JRE_HOME Location: C:/test/amx3/jdk1.7.0/jre7/
AMX Version: 3.1.5
Admin-amxadmin-instanceOne
  Node Names:
    DevNode
    SystemNode
```

Update Mode

The Update command updates the JRE for a given TIBCO_HOME and all the "TIBCO ActiveMatrix Administrator Instances" referencing it. Specify the JRE_HOME location. JRE is updated for the TIBCO_HOME, from which the tool is invoked.



When TIBCO ActiveMatrix 3.1.5 is upgraded to TIBCO ActiveMatrix 3.2.0 or 3.3.0, the tool is installed in both the `$TIBCO_HOME/amx/3.1/` and the higher version directory (for example, `$TIBCO_HOME/amx/3.3/`). When you upgrade, you must run the utility from the directory of the higher version (for example, `$TIBCO_HOME/amx/3.3/`) and not the lower version (for example, `$TIBCO_HOME/amx/3.1/`).

The general syntax of the command is:

```
update -jreHome <path to JRE> -updateIni -dryRun
```

The `-dryRun` option only lists the files that will be updated. It does not modify any files. To modify the files, run the update command without the `-dryRun` option.

Example:

```
update -jreHome C:/test/amx3/PlatformSupport/jdk1.8.0_31/jre
-updateIni
```

For Other Products

For other products (other than TIBCO ActiveMatrix Service Bus and TIBCO ActiveMatrix Service Grid), specify the include file that contains the list of `.tra` and `.ini` files that needs to be updated.

Example:

```
update -jreHome C:/test/amx3/PlatformSupport/jdk1.8.0_31/jre
-includeFile C:/test/amx3/IncludeFile.txt -updateIni -dryRun
```

For more information on the include file, see [Arguments of the Update Command](#), page 26.

Arguments of the Update Command

Argument	Description
<code>-jreHome <path></code>	<p>The path to the JRE_HOME to which you want to update.</p> <p>NOTE: Provide the JRE_HOME (and not the JDK_HOME) bundled inside the JDK. If you point to JDK_HOME, the path updated for tra/ini does not work for Runtime.</p>
<code>-includeFile <include-file-path></code>	<p>The path to the file containing the list of .tra or .ini files to be included in the update process.</p> <p>The path in the file can be an absolute path or relative to TIBCO_HOME.</p> <p>Sample content in the include file:</p> <pre>TIBCO_HOME/a TIBCO_HOME/b TIBCO_HOME/c/d /home/AMX-products/AMX3x-HFs/e/f</pre> <p>Where a, b, c and d are the name of folders which gets created for products other than TIBCO ActiveMatrix.</p>
<code>-excludeFile <exclude-file-path></code>	<p>The path to the file containing the list of .tra or .ini files to be excluded in the update process.</p> <p>The path in the file can be an absolute path or relative to TIBCO_HOME.</p> <p>Sample content in the exclude file:</p> <pre>TIBCO_HOME/a TIBCO_HOME/b TIBCO_HOME/c/d /home/AMX-products/AMX3x-HFs/e/f</pre> <p>Where a, b, c and d are the name of folders which gets created for products other than TIBCO ActiveMatrix.</p>
<code>-updateIni</code>	<p>This argument is applicable only with version 3.2.0 and 3.3.0. The default value is false. If set, the command also updates the .ini files in the specified TIBCO_HOME.</p>
<code>-dryRun</code>	<p>Optional argument; default value is false. If set, the command does not make any changes. It only displays information on what would have been done.</p>

Argument	Description
<code>-configFile <path></code>	<p>The location of a configuration file that can preconfigure the command. This argument is optional.</p> <p>Sample content in the configuration file:</p> <pre>tibamx_jreupdater.DefaultJreHome=/a/b/c/jdk1.8.0_31/jre tibamx_jreupdater.DefaultConfigHomeLocation=/a/b/c/d tibamx_jreupdater.DefaultIncludeFile=a/b/c/includeFile.txt tibamx_jreupdater.DefaultExcludeFile=a/b/c/excludeFile.txt</pre>
<code>-logFile <path></code>	The location of a log file that keeps track of command execution. This argument is optional; commands write to a default log file as needed.
<code>-stackTrace</code>	Creates a full exception stack trace on encountering an error. This argument is optional.

Example of Update Command for 3.1.5

```
update -jreHome C:/test/amx3/PlatformSupport/jdk1.8.0_31/jre/
-dryRun
```

The output of the command is as follows:

File

'TIBCO_HOME/amx/3.1/templates/rpflauncher_classpath_1.0.0.tra' will be modified: JRE.HOME in property [java.library] will be changed to C:/test/amx3/jdk1.8.0_31/jre/

File

'TIBCO_HOME/amx/3.1/templates/rpflauncher_classpath_1.0.0.tra' will be modified: JRE.HOME in property [tibco.env.PATH] will be changed to C:/test/amx3/jdk1.8.0_31/jre/

File 'TIBCO_HOME/amx/3.1/bin/nodeutil_classpath_3.1.5.tra' will be modified: JRE.HOME in property [java.library] will be changed to C:/test/amx3/jdk1.8.0_31/jre/

File 'TIBCO_HOME/amx/3.1/bin/nodeutil_classpath_3.1.5.tra' will be modified: JRE.HOME in property [tibco.env.PATH] will be changed to C:/test/amx3/jdk1.8.0_31/jre/

File 'TIBCO_HOME/amx/3.1/bin/nodeutil_classpath_3.1.5.tra' will be modified: JRE.HOME in property [tibco.env.LIBPATH] will be changed to C:/test/amx3/jdk1.8.0_31/jre/

File 'TIBCO_HOME/amx/3.1/bin/hpaclient_classpath_3.1.5.tra' will be modified: JRE.HOME in property [java.library] will be changed to C:/test/amx3/jdk1.8.0_31/jre/

File 'TIBCO_HOME/amx/3.1/bin/hpaclient_classpath_3.1.5.tra' will be modified: JRE.HOME in property [tibco.env.PATH] will be changed to C:/test/amx3/jdk1.8.0_31/jre/

File 'TIBCO_HOME/amx/3.1/bin/hpaclient_classpath_3.1.5.tra' will be modified: JRE.HOME in property [tibco.env.LIBPATH] will be changed to C:/test/amx3/jdk1.8.0_31/jre/

File 'TIBCO_HOME/tibcohost/3.1/scripts/node_classpath_3.1.5.tra' will be modified: JRE.HOME in property [java.library] will be changed to C:/test/amx3/jdk1.8.0_31/jre/

File 'TIBCO_HOME/tibcohost/3.1/scripts/node_classpath_3.1.5.tra' will be modified: JRE.HOME in property [tibco.env.PATH] will be changed to C:/test/amx3/jdk1.8.0_31/jre/

File 'TIBCO_HOME/tibcohost/3.1/scripts/node_classpath_3.1.5.tra' will be modified: JRE.HOME in property [tibco.env.LIBPATH] will be changed to C:/test/amx3/jdk1.8.0_31/jre/

File
'TIBCO_HOME/tibcohost/3.1/scripts/bootsraptcs_classpath_3.1.5.tra' will be modified: JRE.HOME in property [java.library] will be changed to C:/test/amx3/jdk1.8.0_31/jre/

File
'TIBCO_HOME/tibcohost/3.1/scripts/bootsraptcs_classpath_3.1.5.tra' will be modified: JRE.HOME in property [tibco.env.PATH] will be changed to C:/test/amx3/jdk1.8.0_31/jre/

File
'TIBCO_HOME/tibcohost/3.1/scripts/bootsraptcs_classpath_3.1.5.tra' will be modified: JRE.HOME in property [tibco.env.LIBPATH] will be changed to C:/test/amx3/jdk1.8.0_31/jre/

File
'TIBCO_HOME/tibcohost/3.1/scripts/tibcohost_classpath_3.1.5.tra' will be modified: JRE.HOME in property [java.library] will be changed to C:/test/amx3/jdk1.8.0_31/jre/

File
'TIBCO_HOME/tibcohost/3.1/scripts/tibcohost_classpath_3.1.5.tra' will be modified: JRE.HOME in property [tibco.env.PATH] will be changed to C:/test/amx3/jdk1.8.0_31/jre/

File
'TIBCO_HOME/tibcohost/3.1/scripts/rdacompiler_classpath_3.1.5.tra' will be modified: JRE.HOME in property [java.library] will be changed to C:/test/amx3/jdk1.8.0_31/jre/

File
'TIBCO_HOME/tibcohost/3.1/scripts/rdacompiler_classpath_3.1.5.tra' will be modified: JRE.HOME in property [tibco.env.PATH] will be changed to C:/test/amx3/jdk1.8.0_31/jre/

File

'TIBCO_HOME/tibcohost/3.1/scripts/rdacompiler_classpath_3.1.5.tra'
will be modified: JRE.HOME in property [tibco.env.LIBPATH] will be
changed to C:/test/amx3/jdk1.8.0_31/jre/

Reverting to the Previous Version of the JRE

- To revert to a previous version of the JRE, invoke the tool with the intended JRE_HOME as argument.

```
update -jreHome <path>
```



You cannot use this command to revert to an externally installed version of JRE 1.6. For that, you must use the "update -jreHome TIBCO_JRE" command.

- To revert to `tibcojre`, specify `TIBCO_JRE` as the value for the argument `-jreHome`.

```
update -jreHome TIBCO_JRE
```


The Back up of Files

The TIBCO ActiveMatrix Updater Tool for Java Runtime Environment (JRE) backs up all the .tra and .ini files that are updated during the JRE update process. The .bak files are stored in the same location as the original .tra or .ini file. The existing .tra or .ini file is renamed as: <Existing_Name>_<Time-Stamp>.bak



- The time stamp value is the same for all the .bak files in a given update process.
- In one update operation, the time stamp for each and every .tra and .ini file is the same.

Logging

The default log file is located at

`TIBCO_HOME/tibamx_jreupdater/logs/tibamx_jreupdater.log`.

To specify a different log file location, execute the following command:

```
update -logFile <new path>
```

Troubleshooting

The TIBCO_HOME is corrupted and I am unable to invoke the tool again. What should I do?

1. Replace `TIBCO_HOME/amx/3.x/bin/amx_jre_updater.tra` with the backup of the `.tra` file created during the last update operation.
2. Invoke the tool and update the `JRE_HOME` again.

I do not want to upgrade a specific Implementation Type or Binding Type component. What should I do?

By default, all the Implementation Type and Binding Type components inside `TIBCO_HOME` are updated in any "update" operation irrespective of the TIBCO ActiveMatrix platform version (3.1.5, 3.2.0, or 3.3.0). If you do not want to upgrade any specific component, exclude that component using the `-excludeFile` argument.

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