

TIBCO ActiveMatrix[®] Management Agent for WebSphere

Installation

*Software Release 1.2.0
July 2009*

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Preface

TIBCO ActiveMatrix[®] Management Agent for WebSphere extends policy management to web services deployed in IBM WebSphere Application Server. The management agent is a plug-in component within WebSphere servers, and cooperates with TIBCO ActiveMatrix Policy Manager.

The Service probe for IBM WebSphere Application Server allows monitoring and management of Java EE Web Services and Service References (JAX-RPC/JAX-WS) which are deployed and running in IBM WebSphere Application Server 6.1.x using TIBCO ActiveMatrix Service Performance Manager.

Readers of this document must already be familiar with TIBCO Policy Manager software, TIBCO ActiveMatrix Service Performance Manager and with IBM WebSphere software.



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.

Topics

- [Changes from the Previous Release of this Guide, page viii](#)
- [Related Documentation, page ix](#)
- [Typographical Conventions, page xi](#)
- [How to Contact TIBCO Support, page xiii](#)

Changes from the Previous Release of this Guide

This section itemizes the major changes from the previous release of this guide.

Installation Screenshots Updated

The screenshots in [Chapter 1, Installation](#) are updated pertaining to this release.

Related Documentation

This section lists documentation resources you may find useful.

TIBCO ActiveMatrix Management Agent for WebSphere Documentation

The following documents form the TIBCO ActiveMatrix Management Agent for WebSphere documentation set:

- *TIBCO ActiveMatrix Management Agent for WebSphere Installation* This book presents instructions for installing the product.
- *TIBCO ActiveMatrix Management Agent for WebSphere User's Guide* This book describes ActiveMatrix Management Agent for WebSphere software, and presents instructions for configuring and using the product.
- *TIBCO ActiveMatrix Management Agent for WebSphere 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™ Policy Manager
- TIBCO ActiveMatrix™ Service Grid
- TIBCO ActiveMatrix™ Registry
- TIBCO Enterprise Message Service™
- TIBCO Administrator™
- TIBCO ActiveMatrix™ Service Performance Manager

Third Party Documentation

- IBM
- IBM WebSphere Application Server
<http://publib.boulder.ibm.com/infocenter/wasinfo/v6r1/index.jsp>
 - **Introduction**
http://publib.boulder.ibm.com/infocenter/wasinfo/v6r1/index.jsp?topic=/com.ibm.websphere.base.doc/info/aes/ae/welc6tech_ovrex.html
 - **JAX-RPC**
<http://publib.boulder.ibm.com/infocenter/wasinfo/v6r1/index.jsp?topic=/org.eclipse.jst.ws.doc.user/concepts/cjaxrpc.html>
 - **JAX-WS**
<http://publib.boulder.ibm.com/infocenter/wasinfo/v6r1/index.jsp?topic=/com.ibm.webservice.wsfp.doc/topics/cjaxws.html>

- Java
- The various Java specifications supported by Management Agent for WebSphere can be obtained from the Java Community Process web site <http://jcp.org>:
- Java Message Service
 - JAX-RPC
 - JAX-WS

- Web Services Standards
- Management Agent for WebSphere supports web services standards sponsored by the following standards bodies:
- World Wide Web Consortium web services activity
<http://www.w3.org/2002/ws/>
 - WSDL 1.1
<http://www.w3.org/TR/wsdl>
 - OASIS web services committees
http://www.oasis-open.org/committees/tc_cat.php?cat=ws
 - Web Services Interoperability
<http://www.ws-i.org/>

Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions


Convention	Use
<i>TIBCO_HOME</i>	All TIBCO products are installed under the same 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.
code font	Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example: Use MyCommand to start the foo process.
bold code font	Bold code font is used in the following ways: <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]
<i>italic font</i>	Italic font is used in the following ways: <ul style="list-style-type: none"> • To indicate a document title. For example: See <i>TIBCO BusinessWorks Concepts</i>. • To introduce new terms. For example: A portal page may contain several <i>portlets</i>. Portlets are mini-applications that run in a portal. • To indicate a variable in a command or code syntax that you must replace. For example: MyCommand <i>pathname</i>
Key combinations	Key name separated by a plus sign indicate keys pressed simultaneously. For example: Ctrl+C. Key names separated by a comma and space indicate keys pressed one after the other. For example: Esc, Ctrl+Q.
	The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances.

Table 1 General Typographical Conventions (Cont'd)



Convention	Use
	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.

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 param1 param2 param3</pre>
{ }	<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>

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 **Installation**

This chapter presents the steps required to install Management Agent for WebSphere software.

Topics

- [Installation Checklist, page 2](#)
- [Ensure Prerequisites, page 3](#)
- [Installation on Microsoft Windows, page 5](#)
- [Installation on UNIX, page 6](#)
- [Select the Installation Package, page 7](#)
- [Install Management Agent for WebSphere and Service Probe for IBM WebSphere Application Server, page 8](#)
- [Verifying Installation, page 13](#)

Installation Checklist

Table 3 is a checklist of steps for installing and configuring Management Agent for WebSphere software. Table 3 summarizes each step briefly; further detail is available in subsequent sections of this book.

Table 3 Installation Checklist

Step	Notes
1. Ensure Prerequisites, page 3	
2. Check platform information: Installation on Microsoft Windows, page 5 Installation on UNIX, page 6	
3. Select the Installation Package, page 7	
4. Install Management Agent for WebSphere and Service Probe for IBM WebSphere Application Server, page 8	Install Management Agent for WebSphere software on each WebSphere host computer. Follow the instructions appropriate to the operating system platform.
5. Configure Management Agent for WebSphere	For instructions, see <i>TIBCO ActiveMatrix Management Agent for WebSphere User's Guide</i> .
6. Service Probe for IBM WebSphere Application Server	For instructions, see <i>TIBCO ActiveMatrix Management Agent for WebSphere User's Guide</i> .

Ensure Prerequisites

Before installing Management Agent for WebSphere software you must first ensure that the following prerequisite software is correctly installed and configured.

IBM WebSphere Application Server

TIBCO ActiveMatrix Management Agent for WebSphere is supported for:

- IBM WebSphere Application Server 6.1.0. with latest Fix pack.
- IBM WebSphere Application Server Network Deployment 6.1.0. with latest Fix pack.

You must install and configure WebSphere Application Server before installing Management Agent for WebSphere.

TIBCO ActiveMatrix Policy Manager

TIBCO ActiveMatrix Management Agent for WebSphere requires Policy Manager 3.0.

Each management agent instance must communicate with a Policy Manager instance. You must install and configure Policy Manager on a network host computer before installing Management Agent for WebSphere. Ensure that each WebSphere host computer can access the Policy Manager host computer.

In addition, Policy Manager includes an administrative console plug-in, which you must install either in ActiveMatrix Administrator (included with ActiveMatrix Service Grid), or in TIBCO Administrator (required by TIBCO BusinessWorks).

TIBCO ActiveMatrix Service Performance Manager

The Management Agent for WCF and Service Probe for IBM WebSphere Application Server is compatible with Service Performance Manager 1.2.

TIBCO Enterprise Message Service

If your web services communicate using JMS as the transport (that is, SOAP/JMS), then Management Agent for WebSphere requires TIBCO Enterprise Message Service™ 4.4.3 (or later) as the JMS provider.

Installation on Microsoft Windows

Before starting the installation procedure, review the topics in this section to determine that your system meets the basic requirements and that you have the prerequisite software installed.

Prerequisites

This section lists additional prerequisites for installing TIBCO Management Agent for WebSphere on Microsoft Windows systems.

Table 4 Supported Platforms for Microsoft Windows

Platform	Edition/Service Pack	Disk Space (MB)
Microsoft Windows 2003 Server	Service Pack 2	300
Microsoft Windows XP	Professional Edition Service Pack 2	400

Installer Account

You must have administrator privileges to install TIBCO ActiveMatrix Management Agent for WebSphere.

If you do not have administrator privileges, the installer exits. You must then log out, and log in as a user with the required privileges, or request your system administrator to assign the privileges to your account.

Installation on UNIX

Before starting the installation procedure, review the topics in this section to determine that your system meets the basic requirements and that you have the prerequisite software installed.

UNIX Prerequisites

This section lists additional prerequisites for installing Management Agent for WebSphere on UNIX systems.

Table 5 Supported Platforms for UNIX

Platform	Edition/Service Pack	Disk Space (MB)
Solaris 10	SPARC, 64-bit and 32-bit	400
Solaris	x86	400
AIX 5.3	POWER-PC 64-bit	400

Installer Account

You can install Management Agent for WebSphere from a regular (non-root) user account, or from a super-user (root) account.

Select the Installation Package

Download the appropriate installation package for your platform, or locate it on the distribution DVD. [Table 6](#) lists the installation package names for each platform.

Table 6 Installation Packages

Platform	Installation Package
Microsoft Windows	TIB_amma-was_<version_num>_win_x86.zip
AIX	TIB_amma-was_<version_num>_aix52_power_64.zip
Solaris 10	TIB_amma-was_<version_num>_sol8_sparc_64.zip
	TIB_amma-was_<version_num>_sol8_sparc.zip
Solaris 10 (x86)	TIB_amma-was_<version_num>_sol10_x86_64.zip

Install Management Agent for WebSphere and Service Probe for IBM WebSphere Application Server

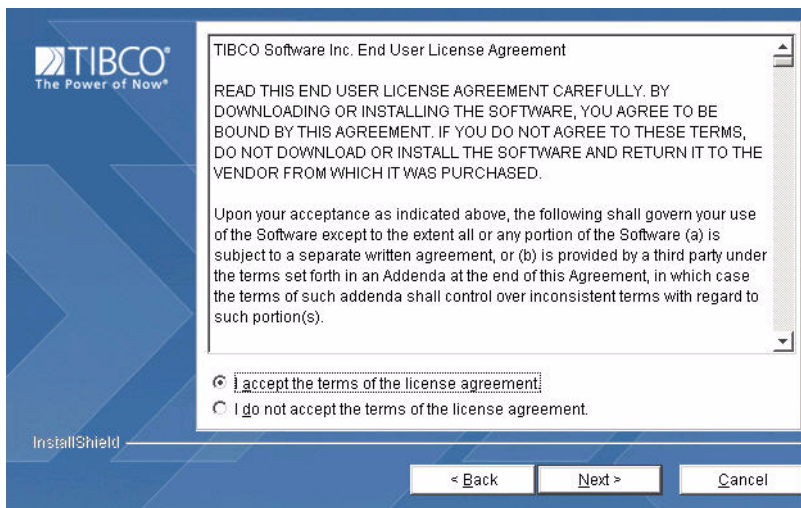
Install Management Agent for WebSphere using one of the following modes:

- [Install in GUI Mode on page 8](#)
- [Install in Console Mode on page 11](#)
- [Install in Silent Mode on page 11](#)

Install in GUI Mode

To install Management Agent for WebSphere using GUI mode, do these steps.

1. Open the physical media or download the Management Agent for WebSphere product package.
2. Extract the Management Agent for WebSphere product archive file to a temporary directory.
3. Navigate to the temporary directory that contains the universal installer.
4. Run the TIBCOUniversalInstaller executable.
5. The Welcome screen appears. Click **Next**.
6. The License Agreement screen appears. After reading through the license text, click **I accept the terms of the license agreement** and then click **Next**



7. The Installation Environment screen appears. Choose the installation environment here and click **Next**.

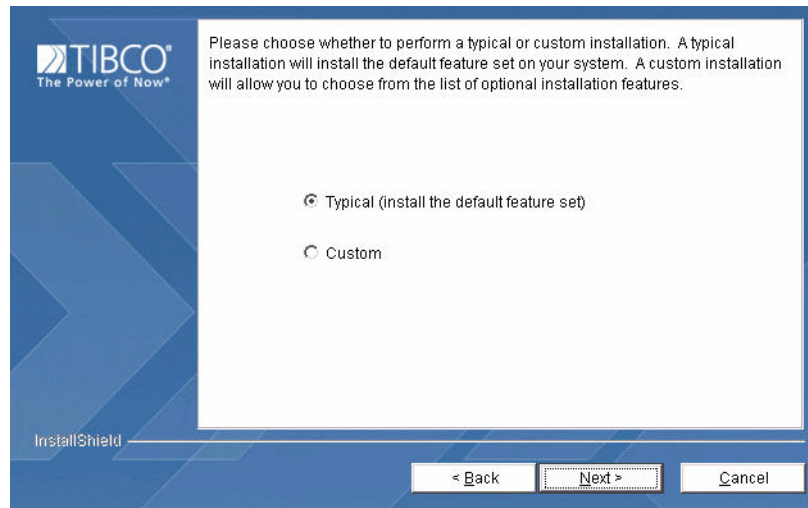


The screenshot shows the 'Installation Environment' dialog box. It has a blue header with the TIBCO logo and 'The Power of Now' tagline. The main area is white with a blue border. It contains the following fields:

- Environment:** A dropdown menu with 'TIBCO_HOME' selected. Below it, a small text label reads 'isolated home for one or more TIBCO products'.
- Name:** A text box containing 'TIBCO_HOME'. Below it, a small text label reads 'example: 'user acceptance' or 'procurement department''.
- Description:** A text box containing 'default installation environment for single instance'.
- Path:** A text box containing 'C:\tibco'. To its right is a 'Browse' button.

At the bottom, there is a blue bar with the 'InstallShield' logo on the left and three buttons: 'Help', '< Back', 'Next >', and 'Cancel'.

8. Install standard management agent features by clicking **Typical** or choose the features to install by clicking **Custom**. After making your choice, click **Next**.



The screenshot shows the 'Installation Type' dialog box. It has a blue header with the TIBCO logo and 'The Power of Now' tagline. The main area is white with a blue border. It contains the following text and options:

Please choose whether to perform a typical or custom installation. A typical installation will install the default feature set on your system. A custom installation will allow you to choose from the list of optional installation features.

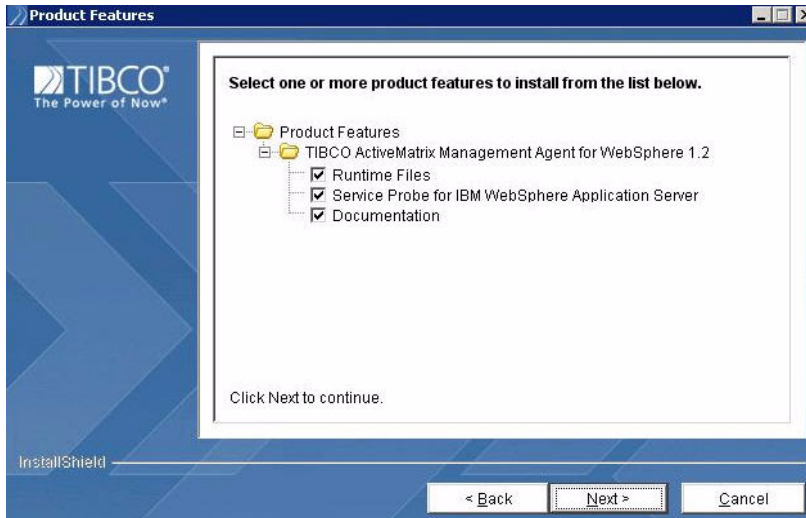
- ☒ Typical (install the default feature set)
- ☐ Custom

At the bottom, there is a blue bar with the 'InstallShield' logo on the left and three buttons: '< Back', 'Next >', and 'Cancel'.

9. If you selected Custom, in [step 8](#), a screen similar to the following appears. If you did not select Custom, proceed to [step 10](#). Unselect the check box next to the features you do not want to install, and click **Next**.



- Runtime files will be installed automatically, if only **Service Probe for IBM WebSphere Application Server** is selected.
- Runtime files will *not* be installed, if only **Documentation** is selected.



10. The installer prepares the features for installation. A pre-install summary screen appears. Click **Install**.



Click **Yes to All** to close any pop up windows that display during installation.

11. Click **Finish** to close the installer window.

Install in Console Mode

The following procedure explains how to install the software in console mode.

1. Open the physical media or download the Management Agent for WebSphere package.
2. Extract the Management Agent for WebSphere archive file to a temporary directory.
3. Using a console window, navigate to the temporary directory that contains the universal installer.
4. Run the installer using this command line:

```
TIBCOUniversalInstaller -console
```

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

Install in Silent Mode

The following procedure explains how to install a Management Agent for WebSphere product in silent mode. The `TIBCOUniversalInstaller.silent` file is packaged in the directory that contains the universal installer. You must edit the file with information for your environment before launching the silent installation. The file includes comments that describe the installation properties you can set.

While you can use the `TIBCOUniversalInstaller.silent` file, it is good practice to copy the file to a different name and edit 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 Management Agent for WebSphere product package.
2. Extract the Management Agent for WebSphere product archive file to a temporary directory.
3. Using a console window, navigate to the temporary directory that contains the universal installer.
4. Copy the `TIBCOUniversalInstaller.silent` file and rename the copy.

5. Using a text editor, open the copied file and update the install location, and features to install.
6. Run the installer using this command line:

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

If you are using the `TIBCOUniversalInstaller.silent` file (rather than a copy), you need not supply the file name and can use this command line:

```
TIBCOUniversalInstaller.cmd -silent
```

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

```
... Install, com.tibco.installer.util.TIBCOInstaller,  
dbg.Debug, Executing Event:::OnEndInstall
```

Installer Log File

The installer writes its log file to the `User_Home/.TIBCO` directory. For example, on Windows, the installer writes its log to the `C:\Documents and Settings\user-name\.TIBCO` directory.

Verifying Installation

You can verify the installation by checking one of the following steps:

1. Click **Start > Programs > TIBCO > TIBCO ActiveMatrix Management Agent for WebSphere** and make sure that Documentation and other menus exist.
- Browse to *TIBCO_HOME*, the folder where TIBCO ActiveMatrix products are installed. Typically, *TIBCO_HOME* is *c:\tibco*.

You can see the directory structure after the product installation as shown in [Figure 1, Directory Structure](#).

Figure 1 Directory Structure



Chapter 2 **Uninstallation**

This chapter presents instructions for uninstalling Management Agent for WebSphere software—or partially uninstalling it, to correct an erroneous configuration.

Topics

- [Uninstalling, page 16](#)

Uninstalling

The uninstallation process has to be performed in two steps:

- Unassociating the management agent instance
- Uninstalling the Management Agent for WebSphere software

Unassociating the Management Agent Instance

To unassociate the management agent instance, do these steps:

1. Stop all WebSphere application servers for which you have configured a management agent.



If you have a federated profile, do *not* stop the Deployment Manager.

2. Run the utility `RevertManagementAgent` with the `-allAppSvrProfiles` option.

For valid options, refer to *Chapter 4, Utilities* in *TIBCO ActiveMatrix Management Agent for WebSphere User's Guide*.

Uninstalling the Management Agent for WebSphere software

To uninstall Management Agent for WebSphere software, do these steps:

1. Navigate to `tibco/_uninstall/` and run the `universal_uninstall` script.
2. To uninstall the entire product, select Typical Uninstall.
3. To uninstall only the documentation, select Custom Uninstall.
4. Select the Management Agent for WebSphere product.
5. Click **Next** to uninstall.
6. Delete the directory `TIBCO_HOME/amma-was` along with any subdirectories that remain.

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