

WebSphere Adapters



Installing IBM WebSphere Adapters

Version 6.0

Note

Before using this information, be sure to read the general information in "Notices" on page 11.

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This edition of this document applies to Installing IBM WebSphere Adapters, and to all subsequent releases and modifications until otherwise indicated in new editions.

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Installing IBM WebSphere Adapters

You can use either a graphical wizard or a silent, scripted procedure to install and uninstall WebSphere® Adapters.

To use the adapter, you must do the following:

1. **Install the adapter.** This installation guide describes how to install an adapter.
2. **Configure and repackage the RAR file into an enterprise application archive (EAR) file.** This installation guide describes the high-level procedure. See the user guide for your adapter for a step-by-step procedure.
3. **Deploy the EAR file to WebSphere Process Server for Multiplatforms and configure it.** See the user guide for your adapter for a step-by-step procedure.

Performing a graphical installation

Each WebSphere Adapter has its own Installer, which places a resource adapter archive (RAR) and other adapter artifacts on your system. Before installing the adapter, you must have access to an IBM® WebSphere Adapters, Version 6.0 product CD. The CD contains the setup launchpad and the Installer.

The following list shows the operating systems supported by Installer:

Note: You can install a WebSphere Adapter on machines with these operating systems only. If WebSphere Integration Developer is not installed on this system, you can transfer the WebSphere Adapter RAR file and other adapter artifacts to a system where Integration Developer is installed to perform post-install tasks.

- Windows® 2003
 - Standard Edition
 - Enterprise Edition
- Windows 2000 Professional SP6
- Linux®
 - Red Hat Enterprise AS/ES/WS 3.0
 - SuSE Enterprise Server 9.0
 - SuSE Standard Server 9.0

Using the setup launchpad

The setup launchpad provides access to documentation, release notes, and software prerequisites. You can start the installation from the setup launchpad.

1. Start the setup launchpad.

The setup launchpad will start automatically when you insert the product CD into the CD ROM drive on a Windows system. You can also start the setup launchpad on Windows and Linux systems by using the following executable files:

- launchpad_win.exe
- launchpad_linux.bin

Or you can use a java command from the directory where Installer files are located:

Windows java -cp lib\images.jar;lib\nls.jar;launchpad.jar run.

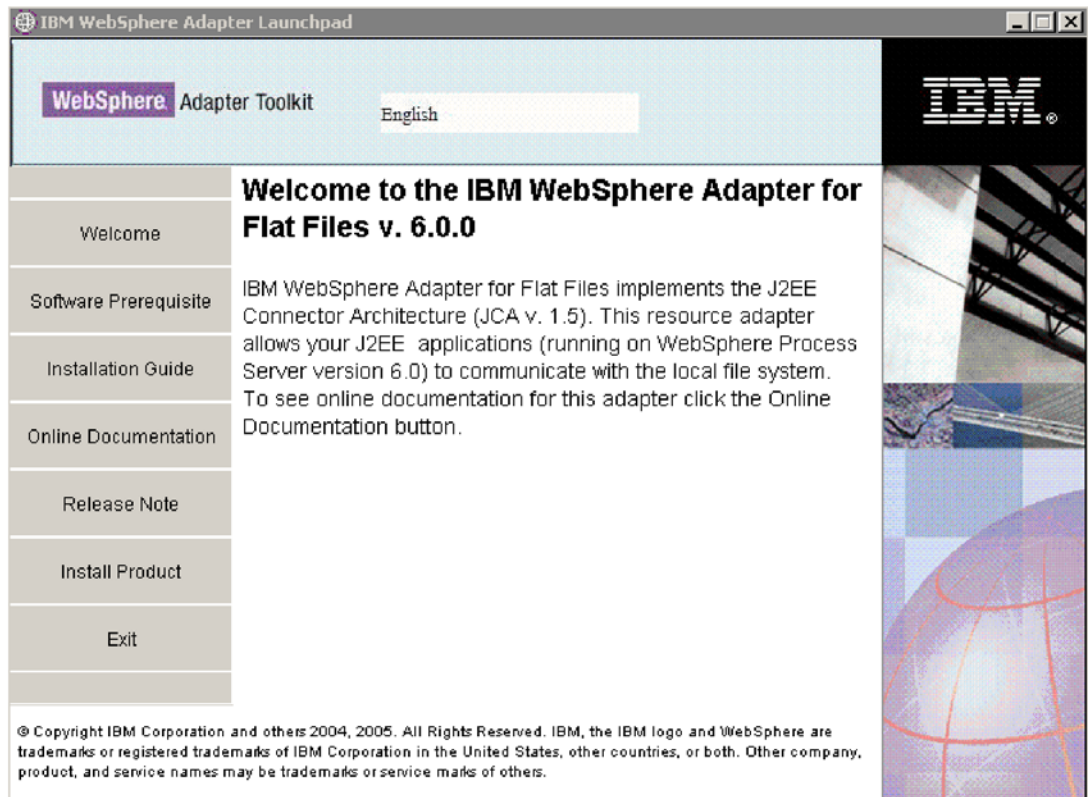
UNIX/Linux java -cp lib/images.jar:lib/nls.jar:launchpad.jar run

This displays a language selection dialog.

2. Select the language for the setup launchpad from the languages list, and click OK.

Note: On Linux systems, the setup launchpad supports only the following Web browsers: Mozilla, Netscape, and Konquerer.

From the setup launchpad, shown in the following screen capture, you can check software prerequisites or get release notes, installation, and product-related documentation on line, or start a WebSphere Adapter Installer:



Setup launchpad for WebSphere Adapter for Flat Files

- Display software prerequisites by clicking **Software Prerequisite**.

Note: The setup launchpad lists the required adapter prerequisites but does not check for prerequisites on your system.

- Access this Installation Guide by clicking **Installation Guide**.
- Access the IBM WebSphere Adapter InfoCenter by clicking **Online Documentation**.
- Access release notes by clicking **Release Note**.
- Start the graphical installation of the WebSphere Adapter by clicking **Install Product**.

Using the Installer

The Installer places a resource adapter archive (RAR) file and other adapter artifacts for a WebSphere Adapter on your system, but it does not deploy or configure the adapter.

1. From the setup launchpad, click **Install Product**. Or launch Installer by running the executable for your operating system as shown in the following table.

Installer executables by platform

Platform	Executable
Windows	setupwin32.exe
Linux	setupLinux.bin

2. Select the language for the Installer from the languages list, and click **OK**.

Note: In this step you select the language in which the Installer is displayed, not the language for the adapter you are installing.

3. Confirm the adapter you want to install, and click **Next**.
4. Read and accept the license agreement by selecting **I accept** and clicking **Next**.
When you reject the agreement, Installer displays a window that explains your options. You must accept the terms of the license and indicate your acceptance to Installer before installing the product.
5. Accept the default installation path, or specify a new one, and click **Next**.
6. Confirm the summary information, and click **Next**.
The summary lists the name product name version, install location, components to be installed, and disk space the installation will take.
7. The Installer installs the RAR file, an Uninstaller, and other adapter artifacts, then displays a confirmation window. Click **Finish**.

Related reference

“Troubleshooting an installation” on page 5

If you experience problems installing an IBM WebSphere Adapter, you can turn a variety of resources. These include installation log file, error and information messages, IBM Support Assistant, and contacting IBM Software Support.

Performing a silent installation

If you are installing a WebSphere adapter on multiple systems, you can save time by performing a silent installation instead of running the Installer. Like its graphical version, a silent installation places a RAR file and other adapter artifacts in the designated location. However, a silent installation lets you automate the installation process by providing a script to guide the installation procedure.

When you perform a silent installation, you edit a file that contains your installation preferences. Then you run the file to install the adapter.

Note: The same installation checks performed when using the Installer are performed during a silent installation. If errors are encountered, the silent installation will terminate and display appropriate error messages on the command line. A silent installation does not deploy or configure the adapter.

1. Open the file settings.txt.

This file is shipped with the product Installer and available when you download Installer or access the Installer CD. The file is also known as the Installshield Options file template.

2. Follow the directions in the settings.txt file.
You edit this file to specify an installation location. After reading the directions:
 - a. Find the line or lines that begin with three pound sign characters (###).
 - b. Edit these lines to express your preferences, specifying a value by replacing the characters *<value>*.
 - c. Remove the ### characters from lines you edit.
3. Save the settings.txt file – you might want to rename it to preserve the original.
4. Run the silent installation.

From a command line (as indicated in the settings.txt file), enter the following command:

```
setupwin32.exe -silent -options mysettings.txt
```

The following example is a command that launches a silent installation on a Linux system:

```
setupLinux.bin -silent -options mysettings.txt
```

Related reference

“Troubleshooting an installation” on page 5

If you experience problems installing an IBM WebSphere Adapter, you can turn a variety of resources. These include installation log file, error and information messages, IBM Support Assistant, and contacting IBM Software Support.

Uninstalling a WebSphere Adapter

When you uninstall a WebSphere Adapter, you remove the RAR and all files placed on your system by Installer. Uninstalling has no effect on a deployed adapter EAR file.

Using the Uninstaller

You have a WebSphere Adapter on your system that you want to uninstall. You can use the graphical Uninstaller. You must have successfully installed a WebSphere Adapter—the Uninstaller is installed with the adapter.

1. Launch the Uninstaller:
 - On Windows:
 - a. Click **Start** → **Settings** → **Control Panel**.
 - b. Choose **Add/Remove Programs**.
 - c. Click **IBM WebSphere Adapter for <your adapter>**
 - d. Click **Change/Remove**.
 - **Note:** Alternatively, you can launch Uninstaller from the command line:

```
<install location>\_uninst\uninstaller.exe
```
 - On UNIX[®], enter the command:

```
<install location>/_uninst/uninstaller.bin
```
2. Select the language for the Uninstaller from the languages list, and click **OK**.
3. Confirm the adapter you want to uninstall, and click **Next**.
4. Read the summary information to confirm the adapter and its filepath, and click **Next**.
5. When Uninstaller is finished, click **Finish**.

Uninstalling silently

Uninstalling silently involves running a script rather than using the graphical Uninstaller. A scripted uninstall can save time when removing multiple adapters.

You have an existing adapter that you now want to uninstall. You want to do so silently. Uninstalling silently involves running a script.

Run the file that uninstalls the adapter.

- On Windows, run the batch file `uninstaller.exe`, as shown in the following command:
`<Install Location>_uninst \uninstaller.exe -silent`
- On UNIX, run the script shown in the following example:
`<Install Location>/_uninst /uninstaller.bin -silent`

Troubleshooting an installation

If you experience problems installing an IBM WebSphere Adapter, you can turn a variety of resources. These include installation log file, error and information messages, IBM Support Assistant, and contacting IBM Software Support.

Installation log file

The installation log file collects messages written when installing and uninstalling, whether you are operating in graphical or silent mode.

The installation log file, `log.txt`, is located in the installation location directory, for example:

```
C:\Program Files\IBM\ResourceAdapters\FlatFiles
```

The file `log.txt` collects status reports and error and information message IDs. These reports and messages are cumulative and time stamped. As the table shows, error message IDs end with an E and information message IDs end with an I:

Message IDs

Message ID	What it means
CWYAS0001I	Install = success
CWYAS0002E	Install = failure
CWYAS0003I	Uninstall = success
CWYAS0004E	Uninstall = failure

A return code of 0 means a successful operation. A non-zero return code indicates an install or uninstall failure.

Using IBM Support Assistant

The IBM Support Assistant provides access to a variety of IBM resources for help with software questions.

The IBM Support Assistant provides the following services:

- Improved access to IBM support information, IBM newsgroups, and other resources through a federated search interface (one search – multiple resources).
- Easy access to IBM educational materials.

- Easy access to IBM product home pages, product support pages, and product forums or newsgroups via convenient links.
- Improved PMR time to resolution by electronic submission and by collecting and sending critical system data to IBM.

The IBM Support Assistant V2.0 is an extensible client application that is installed on a desktop computer. The IBM Support Assistant is a framework that allows other IBM software products to plug into it to provide you with self-help information.

This tool helps you use various IBM Support needs at one central location. The IBM Support Assistant offers three components to help you with software questions:

- A Search component, which helps you access pertinent Support information in multiple locations.
- A Support links component, which provides a convenient location to access various IBM Web resources such as IBM product sites, IBM support sites and links to IBM news groups .
- A Service component, which helps you submit an enhanced service request that includes key system data to IBM.

Note: If IBM Support Assistant V2 is already installed on your workstation when you install the adapter, the adapter automatically deploys the plug-in to IBM Software Assistant.

To download the IBM Support Assistant:

1. Open an Internet browser
2. Go to the following link:
<http://www-1.ibm.com/support/docview.wss?rs=180&uid=swg21192593>
3. Follow the directions on the product support page to download, extract, install, and use the tool.

To learn more about how to use the IBM Support Assistant, click the **User Guide** tab in the IBM Support Assistant window.

Adapter plug-in location

After you install your WebSphere Adapter, the IBM Support Assistant plug in for your adapter is stored in the following location:

```
<Install directory>\adapter\<adapter name>\ISAPugin\
com.ibm.esupport.client.SS6FE6_RA<adapter name>.zip
```

Adapter plug-in instructions

For adapter plug-in installation instructions, go to the following link:

<http://www.ibm.com/support/docview.wss?rs=180&uid=swg21196404>

Additional plug-in installation instructions are available in the on-line User Guide that is installed with the IBM Support Assistant.

Contacting IBM Software Support

You can get support for WebSphere Adapters in a variety of ways and means.

IBM Software Support provides assistance with product defects. Before contacting IBM Software Support, your company must have an active IBM software maintenance contract, and you must be authorized to submit problems to IBM. The type of software maintenance contract that you need depends on the type of product you have:

- For IBM distributed software products (including, but not limited to, Tivoli, Lotus, and Rational products, as well as DB2 and WebSphere products that run on Windows or UNIX operating systems), enroll in Passport Advantage in one of the following ways:
 - **Online:** Go to the Passport Advantage® Web page (www.lotus.com/services/cwpassport.nsf/wdocs/passporthome) and click How to Enroll
 - **By phone:** For the phone number to call in your country, go to the contacts page of the IBM Software Support Handbook on the Web (techsupport.services.ibm.com/guides/contacts.html) and click the name of your geographic region.
- For IBM eServer™ software products (including, but not limited to, DB2® and WebSphere products that run in zSeries®, pSeries®, and iSeries™ environments), you can purchase a software maintenance agreement by working directly with an IBM sales representative or an IBM Business Partner. For more information about support for eServer software products, go to the IBM Technical Support Advantage Web page (www.ibm.com/servers/eserver/techsupport.html).

If you are not sure what type of software maintenance contract you need, call 1-800-IBMSERV (1-800-426-7378) in the United States or, from other countries, go to the contacts page of the IBM Software Support Handbook on the Web (techsupport.services.ibm.com/guides/contacts.html) and click the name of your geographic region for phone numbers of people who provide support for your location.

1. Determine the business impact of your problem When you report a problem to IBM, you will be asked to supply a severity level. Therefore, you need to understand and assess the business impact of the problem you are reporting. Use the criteria described in the table shown below:

Severity criteria for problem reporting

Severity	Description
Severity 1	Critical business impact: You are unable to use the program, resulting in a critical impact on operations. This condition requires an immediate solution.
Severity 2	Significant business impact: The program is usable but is severely limited.
Severity 3	Some business impact: The program is usable with less significant features (not critical to operations) unavailable.
Severity 4	Minimal business impact: The problem causes little impact on operations, or a reasonable circumvention to the problem has been implemented.

2. Describe your problem and gather background information. When explaining a problem to IBM, be as specific as possible. Include all relevant background information so that IBM Software Support specialists can help you solve the problem efficiently. To save time, know the answers to these questions:
 - What software versions were you running when the problem occurred?

- Do you have logs, traces, and messages that are related to the problem symptoms? IBM Software Support is likely to ask for this information.
 - Can the problem be recreated? If so, what steps led to the failure?
 - Have any changes been made to the system? (For example, hardware, operating system, networking software, and so on.)
 - Are you currently using a workaround for this problem? If so, please be prepared to explain it when you report the problem.
3. Submit your problem to IBM Software Support. You can submit your problem in one of two ways:
- **Online:** Go to the Submit and track problems page on the IBM Software Support site (www.ibm.com/software/support/probsub.html). Enter your information into the appropriate problem submission tool.
 - **By phone:** For the phone number to call in your country, go to the contacts page of the IBM Software Support Handbook on the Web (techsupport.services.ibm.com/guides/contacts.html) and click the name of your geographic region.

If the problem you submit is for a software defect or for missing or inaccurate documentation, IBM

Software Support will create an Authorized Program Analysis Report (APAR). The APAR describes the problem in detail.

Whenever possible, IBM

Software Support will provide a workaround for you to implement until the APAR is resolved and a fix is delivered. IBM

publishes resolved APARs on the IBM

product support Web pages daily, so that other users who experience the same problem can benefit from the same resolutions.

Setting up and deploying the adapter

You set up WebSphere Adapters, Version 6, using WebSphere Integration Developer and then deploy adapter EAR files to WebSphere Process Server for MultiPlatforms. Here is a high-level overview; for detailed adapter- and application-specific procedures, see a WebSphere Adapter user guide.

Setting up a Websphere Adapter refers to the series of tasks you perform prior to deploying it. These tasks include opening a connector project in WebSphere Integration Developer, creating adapter dependencies, and generating adapter artifacts. The result of setting up an adapter is an EAR file. Deploying the adapter refers to exporting the EAR file to a server that will run an instance of the adapter.

Before you can set up and deploy the WebSphere Adapter, you must install these products:

- A resource adapter archive (RAR) file for the WebSphere Adapter. You can install a WebSphere Adapter, Version 6.0, on machines with Windows or Linux operating systems. (From there you can transfer the WebSphere Adapter RAR file to a workstation where WebSphere Integration Developer is installed.)
- WebSphere Integration Developer V. 6
- WebSphere Process Server

For WebSphere Integration Developer and WebSphere Process Server installation instructions, refer to the following:

- WebSphere Integration Developer <http://www-306.ibm.com/software/integration/wid/>
- WebSphere Process Server <http://www.ibm.com/software/integration/wps/infocenter>

After successfully installing the RAR file for the WebSphere Adapter, you are ready to import it into a WebSphere Integration Developer project for set up prior to deploying it. The procedure presented here is intended to describe set up and deployment steps for all WebSphere Adapters at a high level. Your WebSphere Adapter may require additional steps. For adapter-specific set up deployment instructions, see the user guide for your WebSphere Adapter.

1. Launch the WebSphere Integration Developer. For details, refer to the documentation at <http://www.ibm.com/software/integration/wid/infocenter>.
2. Create a connector project in WebSphere Integration Developer (J2E Perspective) and import the WebSphere Adapter RAR file using **File** → **Import**. For details, refer to the instructions in the WebSphere Integration Developer documentation.
3. Use WebSphere Integration Developer to add any external dependencies your adapter has to the imported project.

These are dependencies that the WebSphere Adapter may have on the (adapter-specific) application that you are connecting to. Your WebSphere Adapter user guide describes these dependencies, if any, and how to add them.

- a. Copy the external dependencies into the connectorModule in your WebSphere Integration Developer project and add them to the project as internal libraries.

This is necessary to bundle the dependencies into the enterprise application archive (EAR) file, which will be exported. For details, refer to WebSphere Integration Developer documentation.
 - b. Refer to the user guide for your WebSphere Adapter for additional and specific steps.
4. Run the enterprise metadata discovery tool from WebSphere Integration Developer in the Business Integration Perspective.

This will generate business integration components that will be exported into the EAR file. As you complete the process, you enter all the information necessary to set up the adapter for the first time. The output from the enterprise metadata discovery component is saved to a business integration module, which contains the business object, the import file, the export file and more.

5. Use WebSphere Integration Developer to generate reference bindings for the component that the enterprise service discovery wizard creates.

For standalone testing, you must create a standalone reference. This would allow any external component to trigger operations to the component.

6. Deploy the WebSphere Adapter EAR file:
 - a. Export the project to WebSphere Process Server as an EAR file using the WebSphere Process Server administration console.

Launch WebSphere Integration Developer, start a server from WebSphere Integration Developer, and step through the screens.
 - b. Select the project in WebSphere Integration Developer and deploy it to a server that has been configured in WebSphere Integration Developer.

Launch WebSphere Integration Developer and step through the screens.

After you have set up and deployed the adapter, you use WebSphere Process Server administrative console to make any changes required to adapter properties. You can also edit the import and export files in WebSphere Integration Developer and then redeploy the adapter.

Accessibility

The Installer and the setup launchpad support the assistive technology features outlined in the IBM Java™ Accessibility checklist.

Installer and the launchpad are keyboard accessible and support the IBM Java Accessibility Checklist. Keyboard shortcuts allow navigation and selection of graphical user interface components without use of a mouse. For further information see the IBM Java Accessibility website.

All operating system keyboard accessibility features are maintained. The keyboard shortcuts are as follows:

- Use the **Tab** key to navigate among graphical components
- Use the **Space** bar or **Enter** key to select a button within a component, then use **Enter** as needed to choose.
- Cancel the install or uninstall action by tabbing to the **Cancel** key and then either using **Alt + C** or the **Enter** key.

When using Installer, you can use the **Space** bar to accept the license (by selecting the radio button), then use the **Enter** key to proceed to the next screen.

The assistive technology features include the following:

- **Focus** Assistive technology readers read the object in focus. Installer and the launchpad feature visual indicators, including highlighted objects and a visual cursor and movement. (radio button selected)
- **Color** Color is not used to provide status or information.
- **Contrast** Installer and the launchpad inherit system contrast settings. System contrast settings are selectable.
- **Support system settings** Settings for size, font, and color for all user interface controls are inherited from the operating system.
- **Non-animated presentation mode** Installer incorporates animation for the install and uninstall progress display only. Assistive technology readers announce the install and uninstall actions and read the progress of these processes as percentages completed.
- **Controls, objects, and icon labels** All Installer and launchpad components are named and a description for each provided. No icons are used. Labels are associated with components and detected and read by assistive technology readers.

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