PROGRESS SOFTWARE

Artix® Connect for WCF

Installation Guide

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Installation Guide

Progress Software

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The Artix Connect for WCF Library

The Artix Connect for WCF documentation library consists of the following books:

- Installation Guide on page 1

  Read the Installation Guide if you are about to install Artix Connect for WCF.

- Release Notes

  Read the Release Notes for a list of features, known issues, and release-specific information.

- Getting Started Guide

  Read this Getting Started Guide if you are new to Artix Connect for WCF and want to walk through a step-by-step tutorial that shows you how to use Artix Connect for WCF to integrate a .NET application with a CORBA and JMS back-end.

- User's Guide

  Read the User's Guide if you want to use Artix Connect for WCF to integrate a .NET application with CORBA, JMS queues and topics, or EJBs.

- BizTalk Integration Guide

  Read the BizTalk Integration Guide if you want to walk through a steps-by-step tutorial that shows you how to use Artix Connect for WCF to integrate BizTalk Server 2006 or BizTalk Server 2006 R2 with a JMS back-end system and a CORBA back-end system.

Document Conventions

Typographical conventions

This book uses the following typographical conventions:

`fixed width`	Fixed width (Courier font) in normal text represents portions of code and literal names of items such as classes, functions, variables, and data structures. For example, text might refer to the `javax.xml.ws.Endpoint` class. Constant width paragraphs represent code examples or information a system displays on the screen. For example: `import java.util.logging.Logger;`
`Fixed width italic`	Fixed width italic words or characters in code and commands represent variable values you must supply, such as arguments to commands or path names for your particular system. For example: `% cd /users/`*`YourUserName`*
Italic	Italic words in normal text represent *emphasis* and introduce *new terms*.
Bold	Bold words in normal text represent graphical user interface components such as menu commands and dialog boxes. For example: the **User Preferences** dialog.

Keying conventions

This book uses the following keying conventions:

No prompt	When a command's format is the same for multiple platforms, the command prompt is not shown.
`%`	A percent sign represents the UNIX command shell prompt for a command that does not require root privileges.
`#`	A number sign represents the UNIX command shell prompt for a command that requires root privileges.
`>`	The notation > represents the MS-DOS or Windows command prompt.
`. . .`	Horizontal or vertical ellipses in format and syntax descriptions indicate that material has been eliminated to simplify a discussion.
`[ ]`	Brackets enclose optional items in format and syntax descriptions.
`{ }`	Braces enclose a list from which you must choose an item in format and syntax descriptions.

|	In format and syntax descriptions, a vertical bar separates items in a list of choices enclosed in { } (braces).

Admonition conventions

This book uses the following conventions for admonitions:

	Notes display information that may be useful, but not critical.
	Tips provide hints about completing a task or using a tool. They may also provide information about workarounds to possible problems.
	Important notes display information that is critical to the task at hand.
	Cautions display information about likely errors that can be encountered. These errors are unlikely to cause damage to your data or your systems.
	Warnings display information about errors that may cause damage to your systems. Possible damage from these errors include system failures and loss of data.

Installation Prerequisites

This chapter describes any prerequisites needed to successfully install and use Artix Connect for WCF.

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Before You Begin

Read the release notes

Before installing Artix Connect for WCF, read the Release Notes for known issues and late-breaking information.

Uninstall previous versions of Artix Connect for WCF

If you have another version of Artix Connect for WCF installed on your machine, please uninstall it by either:

- Running the Artix Connect for WCF installer associated with that installation; or
- Running the Windows Control Panel applet **Add or Remove Programs**.

System Requirements

Development requirements

If you want to use Artix Connect for WCF for development, you must have administrator rights on the development machine and ensure that the following software is installed:

- Microsoft Visual Studio 2005
  [http://msdn2.microsoft.com/en-us/vstudio/default.aspx]
- Microsoft Line-of-Business (LOB) Adapter SDK
  [http://www.microsoft.com/biztalk/technologies/wcflobadaptersdk.mspx]

Note

When installing the Microsoft LOB Adapter SDK, you must choose the **Complete** installation option. Do not select either the **Typical** or the **Custom** installation option.

- Java Runtime Environment (JRE) 1.5.x or higher
  [http://java.sun.com/javase/downloads/index_jdk5.jsp].

  However, if you intend to use Artix Connect for WCF to connect to EJBs, you need a Java Development Environment (JDK) 1.5 or higher.

- A JMS broker if you want to use the JMS feature.

  If you do not already have a JMS broker, but would like to take a look at the JMS feature, download and install FUSE Message Broker. It is an open source JMS broker based on Apache ActiveMQ and is the default broker used in the *Running the Tutorial* in the *Getting Started Guide*.

  You can download FUSE Message Broker from the following website:

  http://fusesource.com/downloads

  Install using all of the default settings.

The installer checks for the presence of Microsoft Visual Studio 2005 and the Microsoft LOB Adapter SDK when it first launches and it will not proceed if this software is not installed on your machine.

Runtime requirements

If you want to use Artix Connect for WCF for runtime deployments, you must have administrator rights on the runtime machine and ensure that the following software is installed:

- Microsoft .NET Framework 3.0 or 3.5
  [http://msdn.microsoft.com/en-us/netframework/default.aspx]
- Microsoft Line-of-Business (LOB) Adapter Runtime
  [http://www.microsoft.com/biztalk/technologies/wcflobadaptersdk.mspx]. Download the SDK and install using the **Typical** installation option.
- Microsoft Visual C++ 2005 SP1 Redistributable Package (x86)
  [http://www.microsoft.com/downloads/details.aspx?familyid=200B2FD9-AE1A-4A14-984D-389C36F85647].
- Java Runtime Environment (JRE) 1.5.x or higher
  [http://java.sun.com/javase/downloads/index_jdk5.jsp].

Supported Products and Standards

Supported Microsoft platforms

Artix Connect for WCF supports the following Microsoft platforms:

- Microsoft Windows Server® 2003 R2
- Microsoft Windows XP®
- Microsoft Windows Vista® Service Pack 1

Note for Windows Vista users

If you install Windows Vista SP1 before installing Visual Studio 2005, you need to add the following updates after installing Visual Studio:

1. Visual Studio 2005 Service Pack 1
2. Security Update for Microsoft Visual Studio 2005 Service Pack 1
3. Visual Studio 2005 Service Pack 1 Update for Windows Vista

Supported programming languages

Artix Connect for WCF supports any .NET programming language, including:

- C#
- Microsoft Visual Basic .NET
- Managed C++

Supported JMS brokers

Artix Connect for WCF supports the following JMS brokers:

- Apache ActiveMQ 5.2
- FUSE Message Broker 5.0.0.20 or higher
- TIBCO EMS
- SonicMQ 7.5
- IBM WebSphere MQ 6.0

- BEA WebLogic 10

Supported application servers

Artix Connect for WCF supports the following application servers:

- Red Hat JBoss 4.2.3
- IBM WebSphere MQ 6.1
- BEA WebLogic 10

Supported transports and protocols

Artix Connect for WCF supports the following transports and protocols:

- CORBA IIOP
- Java Messaging Service (JMS)
- RMI-IIOP

Installing and Uninstalling Artix Connect for WCF

This chapter describes how to install and uninstall Artix Connect for WCF.

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Installing in GUI Mode

Steps

To install Artix Connect for WCF using the installation GUI, complete the following steps:

1. Navigate to the directory into which you saved the installation package and run the installer, **Artix_Connect_for_WCF_1.5.msi**.
2. When the Welcome screen appears, click **Next**.
3. Read and accept the **License Agreement**. Click **Next**.
4. Select the installation type that you want to install:

Table 1. Artix Connect for WCF Installation Types

Installation Type	Description
Complete Install	Installs the development (SDK) and runtime components of Artix Connect for WCF: a. Artix Connect for WCF code is installed in your chosen installation directory b. The Artix Connect for WCF wizards are registered with Visual Studio and the Microsoft LOB Adapter. c. An Artix Service is registered as a Windows system service. Select this option if you want to use Artix Connect for WCF to design and develop WCF clients and/or services that can connect to CORBA, JMS and EJB systems.
Runtime Only	Installs the runtime components of Artix Connect for WCF and any clients and services that you have already developed. Select this option when you want to reuse WCF clients and/or services, which have already been designed and developed, in testing or production systems. In other words, when you do not want to use Artix Connect for WCF and Visual Studio to design and develop WCF clients and/or services.

5. Specify the top-level directory for your installation.

The default location is `C:\Program Files\IONA\Artix Connect For WCF`. If you want to choose a different directory, click **Browse...** and navigate to the directory into which you want to install Artix Connect for WCF.

6. Click **Next**.
7. If you are ready to install Artix Connect for WCF, click **Install**.

   If you want to review or change any of the installation settings, click **Back**.

8. Wait while Artix Connect for WCF installs.
9. If you selected:

   a. The **Complete Install** installation type, the Artix Connect for WCF Welcome page launches and provides useful links to help you get started with the product.

   b. The **Runtime Only** installation type, the Import Artix Service Deployment Bundle window launches. This enables you to deploy services with the runtime. You can either:

      - Click **Cancel** and ignore the option to select a deployment bundle. This option installs only the runtime components of Artix Connect for WCF. You can deploy services later, using the Artix Administration tool. For details, see *Deploying Your Applications* in the *User's Guide*.
      - Click **...** and browse to the location of your deployment bundle, select it, and click **OK**.

10. Click **Finish** to exit the installer.

Installing in Silent Mode

Installing runtime components silently

You can install the runtime version of Artix Connect for WCF in silent mode; that is, from the command-line and without having to run the installation GUI. You can install the runtime components only or install the runtime components and any services that you have already developed using the development version of Artix Connect for WCF.

To install the runtime components of Artix Connect for WCF in silent mode, navigate to the directory into which you saved the installation package and run the following command. The arguments and their values are described in Table 2 on page 24.

Example 1. Command for Installing Artix Connect for WCF Silently

```
msiexec /i "Artix_Connect_for_WCF_1.5.msi" /qn SILENT=true INSTALLMODE=Runtime
ARTIXBUNDLE=MyDeployment.zip
```

For example, the following command installs the Artix Connect for WCF runtime silently, adds the FUSE Massage Broker implementation JAR to the `CLASSPATH` of the Artix Service, and deploys the services packaged in the `descriptors.zip` file:

Example 2. Example of Installing Artix Connect for WCF Silently

```
msiexec /i "Artix_Connect_For_WCF_1.5.msi" /qn SILENT=true INSTALLMODE=Runtime
ARTIXBUNDLE=C:\test.zip
```

Table 2. Silent Runtime Installation Command-Line Arguments

Argument	Value
`SILENT`	`true` Specifies that you want to install Artix Connect for WCF in silent mode. This is required if you do not specify either `CLASSPATH` or `ARTIXBUNDLE`.
`INSTALLMODE`	`Runtime` Specifies that you want to install the runtime components of Artix Connect for WCF.

Argument	Value
	This is required.
ARTIXBUNDLE	Specifies the full path to the deployment bundle that you want to install with the runtime. This is optional. It is only required when you want to install the runtime version of Artix Connect for WCF and deploy services that you have already developed using the development version of Artix Connect for WCF.

JMS Broker Implementation JARs

Supported JMS Brokers

Table 3 on page 26 describes the location and name of the implementation JAR(s) for each of the supported JMS brokers:

Table 3. JMS Broker Implementation JARs

JMS Broker	Implementation JAR(s)
Apache ActiveMQ 5.2	*ActiveMQInstallDir*`\activemq-all-5.2.0.jar`
FUSE Message Broker 5.0.0.20 or higher	*FUSEMessageBrokerInstallDir*`\activemq-all-5.0.0.20-fuse.jar`
TIBCO EMS	*TIBCOEMSInstallDir*`\clients\java\tibjms.jar` and *TIBCOEMSInstallDir*`\clients\java\jms.jar`
SonicMQ 7.5	*SonicMQInstallDir*|*MQVersion*`\lib\mfcontext.jar`, *SonicMQInstallDir*|*MQVersion*`\lib\sonic_XA.jar` and *SonicMQInstallDir*`\wizard.jar`
WebSphere MQ 6.0	*WebSphereMQInstallDir*`\java\lib\com.ibm.mqjms.jar`
BEA WebLogic 10	*BEAWebLogicInstallDir*`\server\lib\weblogic.jar`

After Installation

Reset the Artix Service

If you want to delete clients and/or services that you previously deployed using an earlier version of Artix Connect for WCF, you can reset the Artix Service. Note that uninstalling the product does not delete these clients and/or services.

To reset the Artix service, complete the following steps:

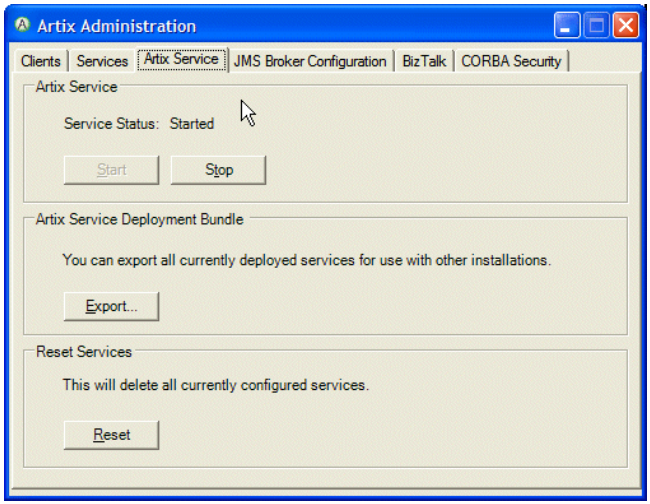
1. Open the Artix Administration tool from the Windows Start menu as follows:

   (All) Programs | IONA | Artix Connect For WCF | Artix Administration

2. Click the **Artix Service** tab.

3. Under Reset Services, click **Reset** (see Figure 1 on page 27).

Figure 1. Resetting the Artix Service



4. You are asked "Do you really want to delete all clients and services?", click **OK**.

Getting started documentation

The Artix Connect for WCF Welcome page provides useful links to help you get started with the product. If you closed it after the product installed, you can relaunch it from the Windows Start menu by selecting:

(All) Programs | IONA | Artix Connect For WCF | Documentation.

Uninstalling Artix Connect for WCF

Steps

To uninstall Artix Connect for WCF, either:

- Rerun the MSI installer application that you used to install the product; or
- Use the Windows Control Panel applet called **Add or Remove Programs**.