



Artix Connect for WCF

Installation Guide

Version 1.0
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Making Software Work Together™

Installation Guide

IONA Technologies

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Preface

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The Artix Connect for WCF Library

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

- Installation Guide
[http://www.iona.com/support/docs/artix/connectwcf/1.0/install_guide/index.html]
- Release Notes
[http://www.iona.com/support/docs/artix/connectwcf/1.0/release_notes/index.html]
- Getting Started Guide
[<http://www.iona.com/support/docs/artix/connectwcf/1.0/tutorial/index.html>]
- User's Guide
[http://www.iona.com/support/docs/artix/connectwcf/1.0/users_guide/index.html]

Document Conventions

Typographical conventions

This book uses the following typographical conventions:

<code>fixed width</code>	<p>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 <code>javax.xml.ws.Endpoint</code> class.</p> <p>Constant width paragraphs represent code examples or information a system displays on the screen. For example:</p> <pre>import java.util.logging.Logger;</pre>
<i>Fixed width italic</i>	<p>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:</p> <pre>% cd /users/YourUserName</pre>
<i>Italic</i>	Italic words in normal text represent <i>emphasis</i> and introduce <i>new terms</i> .
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.
>	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:

Document Conventions

	Notes display information that might 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 crucial 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 might cause damage to your systems. Possible damage from these errors include system failures and loss of data.

Installation Prerequisites

Summary

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 [http://www.iona.com/support/docs/artix/connectwcf/1.0/release_notes/index.html] 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.msp>]



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].
- 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 *Getting Started Guide*.

You can download FUSE Message Broker from the following website:

<http://open.iona.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.msp>].
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?family=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®
-

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
 - FUSE Message Broker
 - TIBCO EMS
 - SonicMQ 7.5
 - WebSphere MQ 6.0
 - BEA WebLogic 10
-

Supported transports and protocols

Artix Connect for WCF supports the following transports and protocols:

- CORBA IIOP
- Java Messaging Service (JMS)

Installing and Uninstalling Artix Connect for WCF

Summary

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 1.0.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	<p>Installs the development (SDK) and runtime components of Artix Connect for WCF:</p> <ol style="list-style-type: none"> 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. <p>Select this option if you want to use Artix Connect for WCF to develop WCF services that can connect to CORBA and JMS systems.</p>
Runtime Only	<p>Installs the runtime components of Artix Connect for WCF and any services that you have already developed.</p> <p>Select this option when you want to deploy a service for testing or production on a system other than your development system.</p>

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 Runtime Configuration window launches. This enables you to deploy services with the runtime. You can either:

- Click Next and ignore the options to select a deployment bundle and JMS implementation JAR. 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 *User's Guide*.
- Click Import and in the Import Service Bundle window enter the location of your deployment bundle.

If your service is a JMS service, click Browse and navigate to the JMS broker implementation JAR for the broker that your service uses.

For a complete list, see JMS Broker Implementation JARs

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, “Silent Runtime Installation Command-Line Arguments”.

Example 1. Command for Installing Artix Connect for WCF Silently

```
msiexec /i "Artix Connect for WCF 1.0.msi" /qn SILENT=true INSTALLMODE=Runtime
CLASSPATH=MyJMSImplementationJAR ARTIXBUNDLE=MyDeployment.zip
```

For example, the following command installs the Artix Connect for WCF runtime silently, adds the FUSE Message 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 1.0.msi" /qn SILENT=true INSTALLMODE=Runtime
CLASSPATH=c:\IONA\fuse-message-broker-5.0.0.8\activemq-all-5.0.0.8-fuse.jar
ARTIXBUNDLE=C:\descriptors.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.

Argument	Value
INSTALLMODE	<p>Runtime</p> <p>Specifies that you want to install the runtime components of Artix Connect for WCF.</p> <p>This is required.</p>
CLASSPATH	<p>Adds the JMS broker implementation JAR(s) to the <code>CLASSPATH</code> of the Artix Service. If there is more than one implementation JAR, list and separate them using a semi-colon (;).</p> <p>This is optional. It is only required if you are deploying a JMS service. For a list of JMS implementation JARs, see JMS Broker Implementation JARs</p>
ARTIXBUNDLE	<p>Specifies the full path to the deployment bundle that you want to install with the runtime.</p> <p>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.</p>

JMS Broker Implementation JARs

Supported JMS Brokers

Table 3, “JMS Broker Implementation JARs” 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)
<i>Apache ActiveMQ 4.1.1</i>	<i>ActiveMQInstallDir\apache-activemq-4.1.1.jar</i>
<i>Apache ActiveMQ 5.0.0</i>	<i>ActiveMQInstallDir\activemq-all-5.0.0.jar</i>
<i>FUSE Message Broker 5.0.0.x</i>	<i>FUSEMessageBrokerInstallDir\activemq-all-5.0.0.x-fuse.jar</i>
<i>FUSE Message Broker in Artix 5.1</i>	<i>ArtixInstallDir\cxx_java\lib\activemq\activemq\4.1.2.5\apache-activemq-fuse-4.1.2.5.jar</i>
<i>TIBCO EMS</i>	<i>TIBCOEMSInstallDir\clients\java\tibjms.jar</i> and <i>TIBCOEMSInstallDir\clients\java\jms.jar</i>
<i>SonicMQ 7.5</i>	<i>SonicMQInstallDir\MQVersion\lib\mfcontext.jar</i> , <i>SonicMQInstallDir\MQVersion\lib\sonic_XA.jar</i> and <i>SonicMQInstallDir\wizard.jar</i>
<i>WebSphere MQ 6.0</i>	<i>WebSphereMQInstallDir\java\lib\com.ibm.mqjms.jar</i>
<i>BEA WebLogic</i>	<i>BEAWebLogicInstallDir\server\lib\weblogic.jar</i>

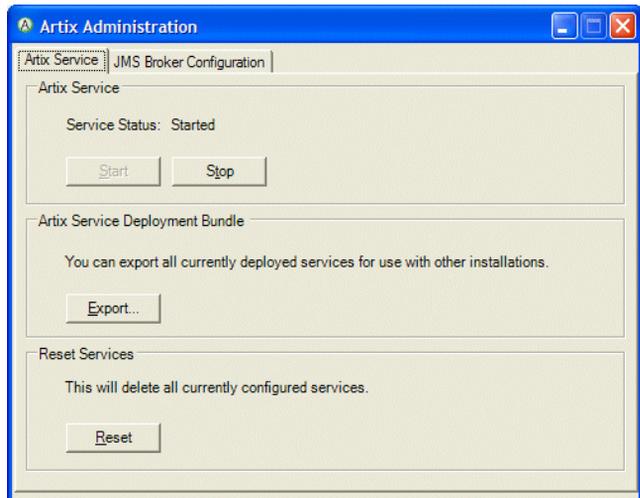
After Installation

Reset the Artix Service

If you have already deployed the sample service using the beta version of this product, you must reset the Artix Service by completing the steps below:

1. Open the Artix Administration tool from the Windows Start menu as follows:
(All) Programs | IONA | Artix Connect For WCF | Artix Administration
2. With the Artix Service tab open, select Reset (see Figure 1, “Resetting the Artix Service”).

Figure 1. Resetting the Artix Service



3. You are asked "Do you really want to delete all 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**.