# Artix™

Artix Connect Installation Guide

Version 4.0, August 2006

*Making Software Work Together™*

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# Installation Prerequisites

*Before you install Artix Connect 4.0, check the system requirements and familiarize yourself with the steps involved in installing the product.*

**In this chapter**

This chapter discusses the following topics:

# Before You Begin

**Read the release notes**

Before installing Artix Connect, visit the IONA Product Documentation web page at:

http://www.iona.com/support/docs/artix/connect/4.0/index.xml

and read the *Artix Connect Release Notes* for late-breaking information on new features, known problems, and other release-specific information.

There may also be updates to this *Installation Guide*.

**Saving your license**

You should receive your license file by e-mail. Save this file to your hard drive. During installation, the Artix Connect installer will prompt you for the location of the file.

# System Requirements

**Overview**

This section outlines the system requirements for Artix Connect 4.0.

**Runtime requirements**

Artix Connect requires Microsoft .NET Framework 1.1.

**Development requirements**

If you plan to do any development for Artix Connect, you must be running Microsoft Visual Studio .NET 2003.

**Supported operating systems**

Artix Connect can run on the following operating systems:

- Windows 2000, Service Pack 3
- Windows XP, Service Pack 1
- Windows 2003 Server

# Supported Products and Standards

**Supported transports and protocols**

Artix Connect enables .NET clients and servers to communicate seamlessly with clients and servers using any of the transports and protocols supported by Artix. These include:

- HTTP
- CORBA IIOP 1.1 and 1.2
- BEA Tuxedo 7.1 or higher[1]
- IBM WebSphere MQ 5.x or higher[1]
- TIBCO Rendezvous 7.1 or higher[1]
- Java Messaging Service (JMS)[1]

**Supported bindings**

Artix Connect supports all of the bindings (marshalling schemes) supported by Artix, including:

- SOAP 1.1
- CORBA Common Data Representation (CDR)
- Pure XML
- Fixed record length (FRL)[1]
- Tagged (variable record length)[1]
- TibrvMsg (a TIBCO Rendevous format)[1]
- Tuxedo Field Manipulation Language (FML)[1]

1. Only available if you have a valid license.

# Installing Artix Connect

*This chapter describes how to install Artix Connect.*

**In this chapter**

This chapter discusses the following topics:

# Running the Artix Connect Installer

**Downloading the installation package**

The Artix Connect 4.0 installation package is available for download from the IONA Product Download Center at:
http://www.iona.com/downloads/artix.htm

Download the `artix_connect_4.0_Windows` package and extract its contents to a directory on your hard drive.

**Running the installer**

To install Artix Connect:

1.  Go to the directory into which you extracted the installation package and run the installer:

    ```
    connect.exe
    ```

2.  Click **Next** to begin the installation.
3.  Read the license agreement.
4.  Accept the license agreement by selecting **I accept the terms of the License Agreement** and click **Next**.
5.  Enter the name of the folder into which you want to install Artix Connect and click **Next**.
6.  Select where on the **Start** menu you want to place shortcuts and click **Next**.
7.  Choose what type of installation you want and click **Next**:

    ♦  **Developer Tools and Runtime**
    ♦  **Runtime Tools**

8.  Specify if you want to set the environment variables specific to Artix Connect for all users on this system, then click **Next**. For details of these environment variables, see "Artix Connect environment variables" on page 14.

> **WARNING:** If you have other IONA products installed and you allow the Artix Connect installer to set the environment variables, it might overwrite your existing IONA products' environment variables. You can create a batch file for each product that sets the environment variables for that product. Artix Connect includes an artix_connect_env.bat file that sets the Artix Connect environment. See "Running the artix_connect_env script" on page 16 for more detail.

9.  Review your installation information and click **Install**.

10. When the installer finishes installing the Artix Connect files, it launches the License Installer. Click **Browse** to locate your license file and click **Next**. The license is copied to the *InstallDir*\etc directory.

    If you want to install the license later, click **Cancel**. For more information see "Licensing Artix Connect" on page 12.

11. Click **Done** to finish the installer.

> **Note:**   If you set the environment variables while installing, you must reboot your machine to ensure that the variables set.

# Licensing Artix Connect

**Overview**

Before you can begin using Artix Connect, you need to install a valid product license. The license is a text file containing keys for the individual components that you have purchased.

Typically, you will receive your Artix Connect license from IONA by e-mail. You should save it to a location on your hard drive and install it in one of the following ways:

- Automatically using the Artix Connect installer (See "Running the Artix Connect Installer" on page 10)
- By manually copying the license file to the default location (See "Installing the license file manually")

**Installing the license file manually**

You can install your license manually by copying the license file to the default location:

```
InstallDir\etc
```

If you want to save the license file to an alternative location on your hard drive, you must set the IT_LICENSE_FILE environment variable to point to the location. See "Setting the variables manually" on page 17 for more detail.

> **Note:** If you have other licensed IONA products installed, you may need to re-set IT_LICENSE_FILE for those products.

# Setting up the Artix Connect Environment

**Overview**

Before you can run any Artix Connect based processes you must set up the runtime environment. The Artix Connect installer automatically sets the environment variables that are required by Artix Connect. If, however, you choose not to set the variables during installation, you must either run the `artix_connect_env.bat` script or set the variables manually.

> **Note:** If you plan to use the command-line `nmake` rather than the Visual Studio IDE to build the demos that ship with Artix Connect, you must run the `artix_connect_env.bat` script at least once for each Windows command prompt.

**In this section**

This section gives details of the variables and how to set them if you have not already set them while installing the product. The following topics are covered:

- Artix Connect environment variables
- Running the artix_connect_env script
- Setting the variables manually
- Verifying the environment

**Artix Connect environment variables**

Table 1 describes the environment variables required by Artix Connect:

**Table 1:** *Artix Connect Environment Variables*

| Variable | Description |
|---|---|
| IT_PRODUCT_DIR | Points to the top level of your Artix Connect installation. For example, if you install Artix Connect into the C:\Program Files\IONA directory, IT_PRODUCT_DIR should be set to that directory.<br><br>**Note:** If you have other IONA products installed and you choose not to install them into the same directory tree, you must reset IT_PRODUCT_DIR each time you switch IONA products. |
| IT_LICENSE_FILE | Specifies the location of your Artix Connect license file. The default value is<br>%IT_PRODUCT_DIR%\etc\licenses.txt |
| IT_DOMAIN_NAME | IT_DOMAIN_NAME specifies the name of the configuration domain used by Artix Connect to locate its configuration. This variable also specifies the name of the file in which the configuration is stored.<br>It should be set to artix. |
| IT_CONFIG_DOMAINS_DIR | Specifies the directory where Artix Connect searches for its configuration file, artix.cfg. It should be set to:<br>%IT_PRODUCT_DIR%\artix\Version\etc\domains<br>For example:<br>C:\iona\ArtixConnect\artix\4.0\etc\domains |

**Table 1:** *Artix Connect Environment Variables (Continued)*

| Variable | Description |
|---|---|
| `IT_IDL_CONFIG_FILE` | Specifies the configuration used by the Artix Connect IDL compiler. If this variable is not set, you will be unable to run the IDL to WSDL tools provided with Artix Connect. This variable is required for an Artix Connect development installation. The default location is:<br><br>`%IT_PRODUCT_DIR%\artix\Version\etc\`<br>`    idl.cfg`<br><br>For example:<br><br>`C:\iona\ArtixConnect\artix\4.0\etc\`<br>`    idl.cfg`<br><br>**Note:**<br><br>Do not modify the default IDL configuration file. |
| `JETVMPROP` | Specifies where the Artix Connect license file is stored. `JETVMPROP` is required for the Artix Connect `wsdltodotnet` metadata generator to work. The default value is:<br><br>`-Dcom.iona.artix.LicenseFile=`<br>`%IT_PRODUCT_DIR%\etc\licenses.txt`<br><br>For example:<br><br>`-Dcom.iona.artix.LicenseFile=C:\iona\`<br>`ArtixConnect\etc\licenses.txt` |

**Table 1:** *Artix Connect Environment Variables (Continued)*

| Variable | Description |
|---|---|
| PATH | The Artix Connect `bin` directories are added to the PATH variable to ensure that the proper configuration files, libraries, and utility programs are used. <br><br> The default `bin` directories are <br><br> `%IT_PRODUCT_DIR%\artix\`*`Version`*`\bin` <br> and <br><br> `%IT_PRODUCT_DIR%\bin` <br> In addition, the following is added to the path: <br><br> `%IT_PRODUCT_DIR%\artix\4.0\bin\vc71\` <br> It is required if you want to use the session manager and locator. |

**Running the artix_connect_env script**

Artix Connect includes an `artix_connect_env.bat` script that sets the Artix Connect environment. It is located in the following directory:

```
InstallDir\artix\Version\bin
```

To set your Artix Connect environment, open a Windows command prompt and run the following command:

```
artix_connect_env.bat
```

**Setting the variables manually**

To set the environment variables manually:

1.  Right-click on the Windows **My Computer** desktop icon and select **View system information**. The System Properties dialog box appears.

2.  Select the **Advanced** tab and click **Environment Variables**, as shown in Figure 1.
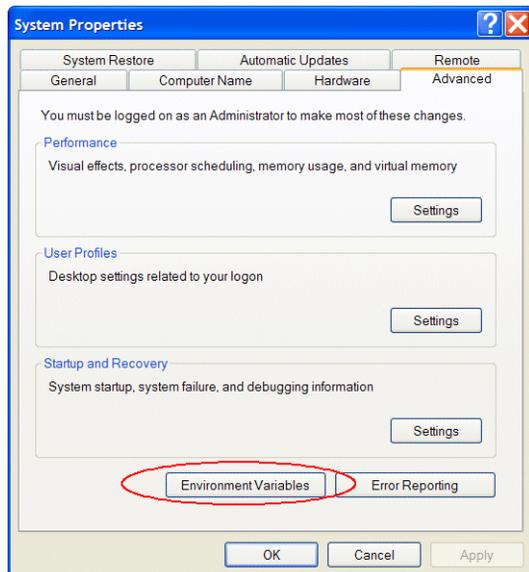


**Figure 1:**  *Viewing System Properties*

3.  The Environment Variables dialog box appears as shown in Figure 2.

Click **New** to add each of the environment variables, including the correct value for your installation, as described in "Artix Connect environment variables" on page 14.
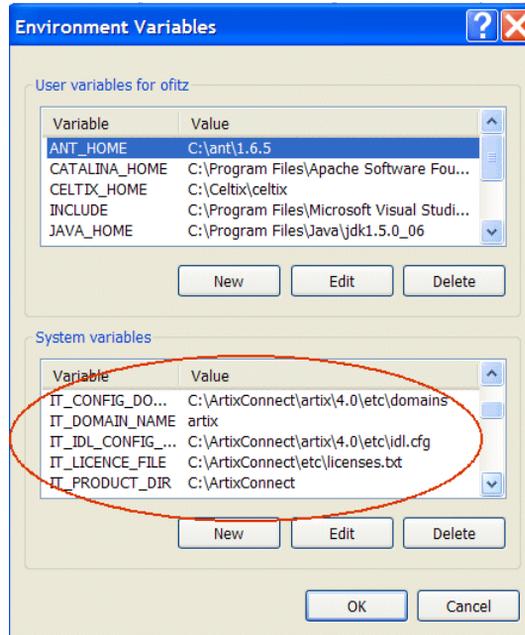


**Figure 2:** *Setting Environment Variables Manually*

**Verifying the environment**

To verify that the Artix Connect environment is correctly set up, open a command prompt and run the following:

```
cd %IT_PRODUCT_DIR%
```

Your working directory should change to the directory where you installed Artix Connect.

# Adding the Wizards to Visual Studio Manually

**Introduction**

The Artix Connect installer installs the Artix Connect wizards and automatically registers them with Visual Studio .NET 2003.

However, there might be occasions when you need to add the wizards to Visual Studio by hand. This involves the following steps:

1. Copying the wizard files into the Visual Studio installation
2. Installing the wizards into the .NET global assembly cache
3. Registering the wizards with Visual Studio

> **Note:** The Artix Connect installer registers the wizards automatically. These manual steps are provided for reference purposes only and are not necessary.

**Copying the wizard files into the Visual Studio installation**

You need to copy the following files into your Visual Studio installation:

- `Artix Reference.ico`
- `Artix Reference.vsz`
- `CORBA Reference.ico`
- `CORBA Reference.vsz`

To copy the wizard files:

1. Ensure that your `IT_PRODUCT_DIR` environment variable is set for Artix Connect.
2. Open a command prompt and run the following command:

```
copy %IT_PRODUCT_DIR%\artix\4.0\etc\wizard\* C:\Program
    Files\Microsoft Visual Studio .NET
    2003\VC#\CSharpProjectItems\LocalProjectItems
```

**Installing the wizards into the .NET global assembly cache**

To install the Artix Connect wizards and the `Artix.Remoting.dll` into the .NET Framework global assembly cache, run the following from a command prompt:

```
itgacinstaller %IT_PRODUCT_DIR%\bin\it_ar_wizard5_vc71.dll
itgacinstaller %IT_PRODUCT_DIR%\bin\it_ar_idlwizard5_vc71.dll
itgacinstaller %IT_PRODUCT%\bin\Artix.Remoting.dll
```

**Registering the wizards with Visual Studio**

To register the wizards with Visual Studio .NET, run the following from a command prompt:

```
C:\windows\Microsoft.NET\Framework\v1.1.4322\RegAsm.exe
    %IT_PRODUCT_DIR%\bin\it_ar_wizard5_vc71.dll
C:\windows\Microsoft.NET\Framework\v1.1.4322\RegAsm.exe
    %IT_PRODUCT_DIR%\bin\it_ar_idlwizard5_vc71.dll
```

# Uninstalling Artix Connect

**Uninstalling Artix Connect**

To uninstall Artix Connect:

1. From the Windows **Start** menu, select **(All) Programs | IONA | Artix Connect 4.0 | Uninstall Artix Connect 4.0**.

2. Click **Uninstall**.

Alternatively, you can run the following from a command prompt:

```
InstallDir\artix\4.0\uninstall\Uninstall_artixconnect_4_0.exe
```