Installation Guide

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CHAPTER 1

Installing IONA Artix

This chapter describes the prerequisites for successful installation of IONA Artix.

In this chapter

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Before You Begin

Read the Release Notes

Before installing IONA Artix, visit the Documentation Web Page at:

http://www.iona.com/support/docs/artix/1.1/index.xml

and check for updates to this *Installation Guide*.

Prerequisites

Operating Systems

Table 1 shows the required patches and C++ and Java Runtimes for all supported Operating Systems:

Table 1: *Supported Operating Systems*

Platform	Required OS Patches; C++/Java Runtime Environment
x86/Windows NT 4.0	SP6a; C++ drivers `msvcrt.dll`, `msvcirt.dll`, and `msvcp60.dll`; Java (JRE or SDK) 1.4.1
x86/Windows 2000	SP3; C++ drivers `msvcrt.dll`, `msvcirt.dll`, and `msvcp60.dll`; Java (JRE or SDK) 1.4.1
x86/Windows XP	C++ drivers `msvcrt.dll`, `msvcirt.dll`, and `msvcp60.dll`; Java (JRE or SDK) 1.4.1
SPARC/Solaris 8	108827-12; 108434-09: (32 bits C++ runtime); 108827-12 (libthread patch); Java (JRE or SDK) 1.4.1 and its recommended OS patches.
SPARC/Solaris 9	Java (JRE or SDK) 1.4.1 and its recommended OS patches.

Table 1: *Supported Operating Systems*

Platform	Required OS Patches; C++/Java Runtime Environment
PA-RISC/HP-UX 11	PHSS_25170: aCC runtime; PHSS_24627: aCC runtime; PHSS_21075: `varargs.h` and +DA2.0W; PHSS_23699: `libcl`; PHSS_24303: `dld`; PHCO_24148: `libc`; Java (JRE or SDK) 1.4.1 and its recommended OS patches.
PA-RISC/HP-UX 11i	PHSS_24638: aCC runtime PHCO_24402: 1.0 libc cumulative header file patch 60 PHCO_25452: 1.0 libc cumulative patch 23632 PHSS_24304: 1.0 ld(1) and linker tools cumulative patch 21234 Java (JRE or SDK) 1.4.1 and its recommended OS patches.
x86/RedHat Linux 7.2	GCC 3.2 runtime (`libstdc++.so.5` and `libgcc_s.so[.1]`); GCC 3.2 development; Java (JRE or SDK) 1.4.1

Java Runtime Requirements

The Java 2 Platform, Standard Edition (J2SE), previously called the Java Development Kit (JDK), contains the basic development kit and runtime for building and running Java applications.

Artix supports Java 2 Platform, Standard Edition (J2SE) version 1.4.1 or higher for development on all supported platforms.

Be sure to set `JAVA_HOME` to point to your JDK installation.

For information on installing J2SE or the required patched, see Sun's Java site at http://java.sun.com/j2se.

Development Requirements

If you plan to use the Artix development tools or run any of the demos, you will need the following C++ compiler, depending on your platform:

Table 2: *C++ Compilers Supported by Artix*

Platform	C++ Compiler	Required Patches
Windows NT, 2000, and XP	Microsoft Visual C++ 6.0	SP 3
Windows NT, 2000, and XP	Microsoft Visual C++ 7.0	
HP-UX 11 and 11i	aC++ A.03.31	
Solaris 8 & 9	Sun C++ 5.3 (part of Forte 6 Update 2)	111685-01
Red Hat Linux	Binutils package 2.13[.9]	

Additional Requirements

Artix has the following additional requirements:

- Artix support for the propagation of transaction contexts requires the presence of the IONA Application Server Platform (ASP), Standard or Enterprise Edition. Artix can use any version of ASP to provide this transaction functionality. ASP must be installed before Artix.
- Running the demos and examples for IBM VisualAge MQSeries or BEA Tuxedo requires that MQSeries or Tuxedo be installed.

Disk space

A development installation of Artix takes the following disk space (plus some temporary disk space for unzipping the installer).

Windows	33 MB
Solaris	16 MB
HP-UX	21MB

UNIX: If the required space is not available in `/tmp`, you can set a different partition for use by InstallAnywhere by setting the environment variable `IATEMPDIR` to point to this partition.

Installing IONA Artix

Notes

- On UNIX platforms, the installer can be run in console mode if no windowing environment is available. To run in console mode use the `-i console` command line option.
- Artix can be installed into the same directory tree as other IONA products, but installing the IONA Application Server Platform 6.0 after installing Artix may cause Artix to become unstable. (See "Installing Artix With IONA Application Server Platform" on page 12 for more details).

Procedure

To install Artix complete the following steps:

1. Download the appropriate package file for your platform and uncompress it.

Table 3: *Artix Installation Packages*

Platform	Installation Package
Windows	`artix_11_Windows.zip`
HP-UX	`artix_11_HP-UX.tar`
Solaris	`artix_11_SunOS.tar`
Red Hat Linux	`artix_11_Linux.tar`

Note: If you copy the installer files to another location make sure and copy both the installer file and the associated folder for your platform.

2. Go to the folder into which you uncompressed the installation package and run the installer:

Windows

```
artix.exe
```

Unix

```
artix.bin
```

or for console mode:

```
artix.bin - i
```

3. Click **Next** to begin the installation.
4. Read the license agreement.
5. Accept the licensing agreement by selecting "I accept the terms of the License Agreement" and click **Next**.
6. Enter the name of the folder into which you want Artix installed and click **Next**.

   Note: It is strongly recommended that you install Artix into the same directory tree as your other IONA products.

7. On Windows systems, you will be asked to select where on the **Start** menu to place shortcuts. Select a location and click **Next**.
8. Choose what type of installation you want and click **Next**:
   - **Developer Tools and Runtime**
   - **Runtime Tools Only**
9. UNIX: Specify the root folder for all of your Artix projects. You should have read and write access to this location. Click **Next**.
10. Windows: Specify if you want to set the system environment variables `IT_PRODUCT_DIR` and `PATH` for all users on this system, just the current user, or not at all. Click **Next**.
    - `IT_PRODUCT_DIR` specifies the root folder of your Artix installation.
    - `PATH` is appended with the Artix bin directories.
11. Specify if you would like to associate `.iap` files with Artix Designer. `.iap` files are the project files used by Artix to store project information. Click **Next**.
12. Review your installation information then click **Install**.

13. When the installer finishes installing the Artix files, it launches the License Installer. Click Browse to locate your license file. The license installer will append your licenses automatically to any existing IONA license file or create a new file in the default location. If you wish to install the licenses by hand click Cancel. For more information see "Licensing IONA Artix Manually" on page 9.
14. Click Done to finish the installer.

Licensing IONA Artix Manually

Getting a license

You should receive your license file by e-mail. This file will need to be saved to a location on your hard drive. If you have other IONA products installed, this license file will be used to extend the license file you already have installed. The license file needs to be accessible by all systems where Artix processes run.

Installing the license

Adding Artix licenses to an existing license file

If you already have licensed IONA products you will have a valid license file. To ensure that your existing licenses are not overwritten by the Artix Licenses, you will want to use a text editor to append the Artix licenses to your existing license file.

Installing to the default location

To install the license file to the default location, copy the license file to the following location:

Windows

```
%IT_PRODUCT_DIR%\artix\1.1\etc\licenses.txt
```

UNIX

```
/etc/opt/iona/licenses.txt
```

You must set `IT_LICENSE_FILE` to point to your license.

Windows

```
set IT_LICENSE_FILE=license_file
```

UNIX

```
export IT_LICENSE_FILE=license_file
```

WARNING: If you have other licensed IONA products installed, setting `IT_LICENSE_FILE` may cause your existing products to stop working. Please see "Adding Artix licenses to an existing license file" on page 9.

Setting up the IONA Artix Environment

Environment variables

You must set the environment variable `IT_PRODUCT_DIR` to point to your Artix installation.

Windows

```
set IT_PRODUCT_DIR=install_dir
```

Depending on how you responded, this may have been set during the installation.

UNIX

```
export IT_PRODUCT_DIR=install_dir
```

Setting the Artix runtime environment

Before you can run any Artix-based processes you must set up the runtime environment. To set the runtime environment do the following:

Windows

```
> cd %IT_PRODUCT_DIR%\artix\1.1\bin
> artix_env
```

UNIX

```
% cd $IT_PRODUCT_DIR/artix/1.1/bin
% . artix_env
```

This script modifies the system path so that the Artix bin directory is in the path and also modifies the shared library path to include the Artix shared library directory.

Verifying the environment

To verify that the Artix environment is correctly set up, cd to `IT_PRODUCT_DIR` and type the command:

```
wsdltocpp
```

You should see the following:

```
WSDL URL has to be specifed!
WSDLToCPP Usage:

java artix.WSDLToCppClient [options] { WSDL-URL }
  [-e Web-service-name] [-t port] [-b binding-name]
  [-d output-directory] [-n namespace]
  [-impl [-m {-NAME | -UNIX} ] | -jp plugin-class-name] [-f]
  [-v] [-license] [-?]
```

Installing Artix With IONA Application Server Platform

Installation

It is recommended that you install Artix into the same directory tree as Application Server Platform 6.0. You should install Application Server Platform 6.0 first.

Also, if you are going to apply Application Server Pack 6.0 service pack 1, you should install it before installing Artix.

Environment variables

All IONA products use two environment variables to get their configuration and licensing information: `IT_PRODUCT_DIR` and `IT_LICENSE_FILE`. If you accept all installer defaults and follow the procedure to add your Artix license to your existing license file ("Adding Artix licenses to an existing license file" on page 9), there will be no conflicts.

However, if you choose to install Artix in a different directory tree than Application Server Platform 6.0 or choose to keep your Artix licenses separate from your ASP licenses, you will need to set `IT_PRODUCT_DIR` and `IT_LICENSE_FILE` to point to the correct locations.

IDL compiler

Currently, the Artix IDL compiler and the Application Server Platform 6.0 IDL compiler use separate configuration files. It is suggested that you set your environment to Artix using the `artix_env` script to use the Artix IDL compiler. To use the Application Server Platform IDL compiler, set your environment for an Application Server Platform domain.

You can merge the configuration files for the two IDL compilers, but that is not supported at this time.