

Artix™

Installation Guide

Version 4.0, March 2006

Making Software Work Together™

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Updated: 29-Oct-2006

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Preface

What is Covered in this Book

This book describes the prerequisites for installing Artix and the procedures for installing Artix on supported systems.

Who Should Read this Book

This guide is intended for all users of Artix.

How to Use this Book

This guide is divided into the following chapters:

- Chapter 1, Installation Prerequisites, which details the supported operating systems, compilers, and required patches.
- Chapter 2, Installing Artix, which provides the steps to install Artix and describes the installation options.
- Chapter 3, Uninstalling Artix, describes how to uninstall Artix.

The Artix Library

The Artix documentation library is organized in the following sections:

- Getting Started
- Designing and Developing Artix Solutions
- Configuring and Deploying Artix Solutions
- Using Artix Services
- Integrating Artix Solutions
- Integrating with Enterprise Management Systems
- Reference Documentation

Getting Started

The books in this section provide you with a background for working with Artix. They describe many of the concepts and technologies used by Artix. They include:

- Release Notes contains release-specific information about Artix.
- Installation Guide describes the prerequisites for installing Artix and the procedures for installing Artix on supported systems.
- Getting Started with Artix describes basic Artix and WSDL concepts.
- Using Artix Designer describes how to use Artix Designer to build Artix solutions.
- Artix Technical Use Cases provides a number of step-by-step examples of building common Artix solutions.

Designing and Developing Artix Solutions

The books in this section go into greater depth about using Artix to solve real-world problems. They describe how Artix uses WSDL to define services, and how to use the Artix APIs to build new services. They include:

- Building Service-Oriented Architectures with Artix provides an overview of service-oriented architectures and describes how they can be implemented using Artix.
- Understanding Artix Contracts describes the components of an Artix contract. Special attention is paid to the WSDL extensions used to define Artix-specific payload formats and transports.
- Developing Artix Applications in C++ discusses the technical aspects of programming applications using the C++ API.
- Developing Advanced Artix Plug-ins in C++ discusses the technical aspects of implementing advanced plug-ins (for example, interceptors) using the C++ API.
- Developing Artix Applications in Java discusses the technical aspects of programming applications using the Java API.

Configuring and Deploying Artix Solutions

This section includes:

 Configuring and Deploying Artix Solutions discusses how to configure and deploy Artix-enabled systems, and provides examples of typical use cases.

Using Artix Services

The books in this section describe how to use the services provided with Artix:

- Artix Locator Guide discusses how to use the Artix locator.
- Artix Session Manager Guide discusses how to use the Artix session manager.
- Artix Transactions Guide, C++ explains how to enable Artix C++ applications to participate in transacted operations.
- Artix Transactions Guide, Java explains how to enable Artix Java applications to participate in transacted operations.
- Artix Security Guide explains how to use the security features of Artix.

Integrating Artix Solutions

The books in this section describe how to integrate Artix solutions with other middleware technologies:

- Artix for CORBA provides information on using Artix in a CORBA environment.
- Artix for J2EE provides information on using Artix to integrate with J2EE applications.

For details on integrating with Microsoft's .NET technology, see the documentation for Artix Connect.

Integrating with Enterprise Management Systems

The books in this section describe how to integrate Artix solutions with a range of enterprise management systems. They include:

- IBM Tivoli Integration Guide explains how to integrate Artix with IBM Tivoli.
- BMC Patrol Integration Guide explains how to integrate Artix with BMC Patrol.
- CA WSDM Integration Guide explains how to integrate Artix with CA WSDM.

Reference Documentation

These books provide detailed reference information about specific Artix APIs, WSDL extensions, configuration variables, command-line tools, and terminology. The reference documentation includes:

• Artix Command Line Reference

- Artix Configuration Reference
- Artix WSDL Extension Reference
- Artix Java API Reference
- Artix C++ API Reference
- Artix .NET API Reference
- Artix Glossary

Getting the Latest Version

The latest updates to the Artix documentation can be found at http://www.iona.com/support/docs.

Compare the version dates on the web page for your product version with the date printed on the copyright page of the PDF edition of the book you are reading.

Searching the Artix Library

You can search the online documentation by using the **Search** box at the top right of the documentation home page:

http://www.iona.com/support/docs

To search a particular library version, browse to the required index page, and use the **Search** box at the top right, for example:

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

You can also search within a particular book. To search within a HTML version of a book, use the **Search** box at the top left of the page. To search within a PDF version of a book, in Adobe Acrobat, select **Edit**|**Find**, and enter your search text.

Artix Online Help

Artix Designer and the Artix Management Console include comprehensive online help, providing:

- Step-by-step instructions on how to perform important tasks
- A full search feature
- Context-sensitive help for each screen

There are two ways that you can access the online help:

• Select **Help | Help Contents** from the menu bar. Sections on Artix Designer and the Artix Management Console appear in the contents panel of the Eclipse help browser.

• Press **F1** for context-sensitive help.

In addition, there are a number of cheat sheets that guide you through the most important functionality in Artix Designer. To access these, select **Help|Cheat Sheets**.

Artix Glossary

The Artix Glossary provides a comprehensive reference of Artix terminology. It provides quick definitions of the main Artix components and concepts. All terms are defined in the context of the development and deployment of Web services using Artix.

Additional Resources

The IONA Knowledge Base contains helpful articles written by IONA experts about Artix and other products.

The IONA Update Center contains the latest releases and patches for IONA products.

If you need help with this or any other IONA product, go to IONA Online Support.

Comments, corrections, and suggestions on IONA documentation can be sent to docs-support@iona.com.

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 IT_Bus::AnyType class.

Constant width paragraphs represent code examples or information a system displays on the screen. For example:

#include <stdio.h>

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 <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.
Ş	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).
	In graphical user interface descriptions, a vertical bar separates menu commands (for example, select File Open).

CHAPTER 1

Installation Prerequisites

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

This chapter discusses the following topics:

Before You Begin	page 2
System Requirements	page 3
Java and Compiler Requirements	page 5
Disk Space Requirements	page 7
Using Artix with Other Products	page 9

In this chapter

Before You Begin

Read the release notes

Before installing Artix:

- Visit the IONA Product Documentation web page at: http://www.iona.com/support/docs/artix/4.0/index.xml
- Read the *Artix 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* available at the Web address above.

Saving your license

You will receive your Artix license file by e-mail. When the e-mail arrives, save the attached license file to a safe, accessible location on your hard drive. During installation, the Artix installer prompts for the location of the license file.

System Requirements

Platforms and patches

Artix 4.0 is supported on both Windows and UNIX. Table 1 shows the supported platforms and compilers, and the required patches and C+ + runtimes.

Operating System	Hardware ¹	C++ Compilers	JDK	OS Patches; C++/Java Runtime Environment
Windows 2000	x86	Visual C++ 6.0		SP4
Windows XP	x86	SP3	1.4.2_04 or	SP2
Windows Server 2003	x86	Visual C++ .NET 2003 (7.1)	later	
Red Hat Enterprise Linux Advanced Server 3.0	x86	GCC 3.2	1.4.2_04 or later	GCC 3.2 runtime (libstdc++.so.5 and libgcc_s.so[.1])
Red Hat Enterprise Linux Advanced Server 3.0	x86_64	GCC 3.2.3	JDK 1.4.2_04 (32-bit) JDK 1.5.0_03 (64-bit) ²	
SUSE Linux Enterprise Server 9	x86_64	GCC 3.3.3	JDK 1.4.2_04 (32-bit) JDK 1.5.0_03 (64-bit) ²	SP1
Solaris 8 (32-bit)	SPARC	Sun C++ 5.5	1 4 2 04 or	108827-12; 108434-09 (32-bit C++ runtime); 108827-12 (libthread patch); 111685-01 patch
Solaris 9 (32-bit)	(part of Sun ONE SPARC Studio 8)	later	111685-01 patch	
Solaris 10 (32-bit)	SPARC			111685-01 patch

Table 1:	Supported Platforms,	Compilers,	and Patches
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Operating System	Hardware ¹	C++ Compilers	JDK	OS Patches; C++/Java Runtime Environment
Solaris 8 (64-bit)	SPARC			
Solaris 9 (64-bit)	SPARC	Sun C++ 5.5 (part of Sun ONE Studio 8)	1.4.2_04 or later	
Solaris 10 (64-bit)	SPARC			
AIX 5.2	POWER, PowerPC	Visual Age 6.0.2 (32-bit)	IBM JDK 1.4.2	Fix for IY57576
HP-UX 11	PA-RISC	aCC 3.56	1.4.2_05 or later	PHSS_25170 (aCC runtime); PHSS_24627 (aCC runtime); PHSS_21075 (varargs.h and +DA2.0W); PHSS_23699 (libcl); PHSS_24303 (dld); PHCO_24148 (libc); PHSS_26559
HP-UX 11i	PA-RISC	aCC 3.56	1.4.2_05 or later	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)

 Table 1:
 Supported Platforms, Compilers, and Patches (Continued)

1. In the Hardware column, X86 refers to the 32-bit Pentium architecture, while X86_64 includes both AMD64 (Opteron) and Intel EMT64 (Xeon) architectures.

2. Both JDKs are required for 64-bit Linux.

Note: Unless you plan to use the JVM that ships with Artix, set your system's JAVA_HOME environment variable to point to your Java SDK (JDK) installation.

Since 64-bit Linux requires both 32-bit and 64-bit compilers, you must set $_{\rm JAVA_HOME_32}$ and $_{\rm JAVA_HOME_64}$ environment variables and point them to the correct JDK.

Java and Compiler Requirements

Java requirements	The Artix installer offers to install a Java virtual machine for exclusive use by Artix, or allows you to specify the use of a previously installed system JVM. If you elect to use an existing JVM, make sure it is at the required release level for your operating system, as specified in Table 1.				
	A JVM is required in order to run the Artix Designer and Artix Management Console tools. You can install the JVM as part of a Java Runtime Environment (JRE) or as part of a Java Development Kit (JDK).				
	Note: If you plan to develop Artix applications in Java, or if you want to compile and run any of the Artix Java demos, you must install a JDK.				
	If you will develop only in C++ (or in a language supported by Artix for z /OS), you can install a JRE, such as the one installed with Artix.				
	Licensing restrictions from Sun Microsystems prevent IONA from including a JDK with the Artix installation. To compile Java code, you must download and install a JDK from Sun Microsystems. This is true even if you allow the Artix installer to install a dedicated JRE. For more information, see Sun Microsystems' Java site at http://java.sun.com/j2se.				
C++ development requirements	If you plan to develop Artix applications in $C++$ or if you want to compile and run any of the Artix $C++$ demos, you must have a $C++$ compiler installed on your machine. Table 1 shows the $C++$ compilers supported by Artix.				
Artix Designer requirements	The Artix Designer development tool and the Artix Management Console administration tool both ship as a set of plug-ins to the Eclipse open source framework.				
	Note: Artix Designer and Artix Management Console are only shipped with the Windows and Linux versions of Artix.				
	Solaris users can install Artix Designer into an existing Eclipse installation, as described in "Configuring Eclipse for Artix Designer" on page 27.				

The Artix installer installs the Eclipse platform, the Artix Designer plug-ins, and all necessary supporting plug-ins into the following directory:

ArtixInstallDir\artix\version\eclipse

If you are already an Eclipse user, you can add the Artix Designer plug-ins to your existing Eclipse installation, as described in "Configuring Eclipse for Artix Designer" on page 27.

Disk Space Requirements

Overview	This section lists the amount of permanent and temporary disk space required for different installations of Artix 4.0.		
Artix installation disk space	The disk space requirements for Artix depend on the installation options selected. Table 2 shows the approximate disk space in megabytes for full, minimum, and runtime only installations. These entries include a dedicated JRE installed with Artix.		

Table 2:	Disk space used by Artix installations in megabytes
----------	---

Installation Type	Windows	Linux	Solaris	AIX	HP-UX
Artix full installation	505	613	502	946	729
Artix custom installation with minimum options selected	331	425	468	788	695
Artix runtime only installation	227	388	448	869	613

Artix installer disk space

The temporary disk space used after unpacking the Artix installer package is shown in Table 3. This table also shows the disk space used by the Java runtime environment installed with Artix. The JRE numbers are included in the totals in Table 2.

Table 3: Disk space used by the unpacked Artix installer as	าd JRE
--	--------

Installation Type	Windows	Linux	Solaris	AIX	HP-UX
Unpacked Artix installer files	271	313	182	279	253
Dedicated JRE installed with Artix	42	59	56	48	151

Temporary disk space

In addition to the requirements in Table 2 and Table 3, you will need 30 to 50 megabytes of temporary work space for the installer. By default, this work space is the Windows TEMP directory or the UNIX /tmp directory.

On UNIX, if the required temporary space is not available on /tmp, you can specify a different partition for the Artix installer by setting the IATEMPDIR environment variable. For example:

IATEMPDIR=/local2/tmp export IATEMPDIR

Using Artix with Other Products

This section outlines the Artix support for third-party products and protocols. This information helps you plan for running some of the Artix demos and examples.

This section includes important information on installing Artix on a machine that hosts other IONA products.

Messaging A	 artix supports the following messaging product versions: IBM WebSphere MQ 5.3 BEA Tuxedo 6.5 on Windows and HP-UX 8.1 on all supported platforms except AIX TIBCO Rendezvous 7.2 SonicMQ 5.x, 6.x
Transports A	rtix supports these transports: SOAP 1.1 IIOP 1.1 and 1.2 HTTP
Application servers	 he Artix J2EE Connector supports the following application servers: JBoss 4.0.1 BEA WebLogic 8.1 SP3 IBM WebSphere 5.1
Security A	Artix supports the following security products and protocols: SiteMinder 4.6.1, 5.5 Kerberos 5 LDAP 3.0

Web services	 Artix supports these Web services products and protocols: Apache Axis 1.3 jUDDI 0.9rc3
Artix and Microsoft .NET	Artix ships with an assembly that developers can use to build interactions between Artix and Microsoft .NET. The assembly provides a set of helper libraries that facilitate interaction between the Artix session manager and locator services, and an IS2 Kerberos adapter, using Microsoft Active Directory.
	 The Microsoft environments supported for .NET integration are: Development environment: Visual Studio .NET 2003 Runtime environment: .NET Framework 1.1 Operating systems: Windows 2000, Windows XP, and Windows Server 2003
	For further information, see the <i>Artix and .NET</i> technical note on the Artix Tech Zone at http://www.iona.com/devcenter/artix/notes.htm.
Installing Artix with other IONA products	If you have another IONA product installed on the machine where you are installing Artix 4.0, remember the following:
	 Do not install Artix 4.0 under the same directory tree as an existing Artix installation. Either uninstall the existing version, or install Artix 4.0 under a separate directory structure.
	• Do not install Artix 4.0 under the same directory tree as any other IONA product, except Orbix 6.3.
	• Do not allow the Artix installer to set or update the IT_PRODUCT_DIR or PATH environment variables.
	• If you are installing Artix 4.0 on the same machine as Orbix 6.3, first read "Installing Artix with Orbix" on page 33.

CHAPTER 2

Installing Artix

This chapter describes how to install Artix.

In this chapter

This chapter discusses the following topics:

Running the Artix Installer	page 12
Installing Artix License Keys	page 23
Setting up the Artix Environment	page 25
Configuring Eclipse for Artix Designer	page 27
Installing Artix with Orbix	page 33

Running the Artix Installer

Downloading the installation package

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

Platform	Installation Package	
Windows	artix_version_Windows.zip	
Linux	artix_version_Linux.tar	
Solaris	artix_version_SunOS.tar	
AIX	artix_version_AIX.tar	
HP-UX	artix_version_HP-UX.tar	

 Table 4:
 Artix Installation Packages

In this table's installation package names, *version* is replaced by the currently shipping version number. For example: artix 4.0.1 SunOS.tar

Download the package for your platform and extract its contents to a temporary directory on your hard drive.

Installation issues

The following are known issues with the installation of Artix 4.0:

- Artix 4.0 cannot be installed in the same directory tree as Artix 1.x or 2.x. IONA recommends that you remove any 1.x or 2.x installations from your system before installing Artix 4.0.
- When installing Artix 4.0 on Windows Server 2003, you must run the installer in Windows XP compatibility mode.
- When installing Artix 4.0 on Windows platforms, do not install into a top-level folder whose pathname contains a space. For example, do <u>not</u> install into C:\Program Files\IONA. If you do, the settings of PATH and CLASSPATH in the artix_env.bat file, and the demo build scripts will be incorrect.

• When using the console installation for UNIX systems, only Full and Runtime-only installation options are available.

Installation modes

You can run the Artix installer in three modes, as described in the following topics:

Installing in GUI Mode	page 14
Installing in Console Mode	page 17
Installing in Silent Mode	page 18

Installing in GUI Mode

Overview	You can run the Artix installer in graphical user interface mode on all supported platforms.		
Running the installer	To install Artix in GUI mode:		
	1. Go to the directory into which you extracted the installation package and run the installer:		
	Windows		
	artix.exe		
	UNIX		
	./artix.bin		
	2. Follow the onscreen instructions and respond to each prompt.		

Use the information in Table 5 as a guide when selecting installation options as the installation proceeds.

Table 5:	Artix installation	options
Tuble 5.	mux moundion	options

Platform	Installation Option	Default	Notes
All	Top-level directory for your Artix installation	Windows: C:\IONA UNIX: /opt/iona	On Windows, do <i>not</i> specify a directory whose pathname contains spaces. For example, do not specify a directory under C:\Program Files.
			On UNIX, specify a directory in which your current login name has full read and write permissions.
			Note: If other IONA products are already installed on your machine, refer to "Installing Artix with other IONA products" on page 10.

Platform	Installation Option	Default	Notes
Windows only	Location for program shortcuts	The Start Programs IONA menu for all users	You can select only one location. Some of the location options also allow you to check the "Set for all system users" checkbox. The default is to set up the shortcuts for the current user only.
Windows only	Allow the Artix installer to set environment variables	For all users on the system	This option sets certain Artix environment variables for the whole system so that they will be available after each reboot.
			For Artix to run, these environment variables do NOT need to be permanently set using this option; it is a convenience option to be set according to your preference. Independent of this installation option, the Artix environment will be set up when you run the artix_env.bat or start_eclipse.bat scripts. See "Setting up the Artix Environment" on page 25 for more information.
			This option sets variables such as IT_PRODUCT_DIR, and appends the Artix <i>bin</i> directory to the PATH. To allow these settings for all users, you must be logged in as an administrator.
			WARNING: Do not allow the installer to set these variables if you have other IONA products already installed on your machine.
All	Development versus runtime only	Development	Specify the runtime-only option when deploying an Artix service on a system other than your development system.

 Table 5:
 Artix installation options

Platform	Installation Option	Default	Notes
All	Install or select a JVM	Install an Artix-specific JRE	The Artix installer can install an Artix-specific JRE, but does not install a JDK. If you want to compile Java applications, you must still install a separate JDK, as described in "Java requirements" on page 5.
			The installer may fail to list all JVMs on your system. If you know the exact location of your JRE or JDK, it is faster to navigate to that location than to let the installer search the entire disk.
			Note: If you are running 64-bit Linux and plan to do 64-bit development, do not allow the Artix installer to install its JRE. Instead, select your locally installed 64-bit JRE or JDK. After Artix is installed, set the JAVA_HOME_32 environment variable to point to your 32-bit JRE or JDK.
All	Save installation options?	No	Allows you to save a properties file containing entries for the installation you just completed. This properties file can be used with future automated or silent installations of Artix as described in "Installing in Silent Mode" on page 18.

 Table 5:
 Artix installation options

3. When the installer finishes installing the Artix files, it launches the license installer. Click **Browse** to locate the license file you saved on your system, as described in "Saving your license" on page 2. The installer copies your license information into the file ArtixInstallDir\etc\licenses.txt.

If you prefer to install the license later, click **Cancel**. For more information see "Installing Artix License Keys" on page 23.

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

Installing in Console Mode

Overview	UNIX users can run the Artix installer in console mode if no windowing environment is available.
Running the installer	To run the Artix installer in console mode:
	1. Go to the directory into which you extracted the installation package and run the installer as follows:
	./artix.bin -i console
	 Follow the onscreen instructions and respond to option prompts. Use the information in Table 5 on page 14 as a guide when selecting installation options as the installation proceeds.
	Note: When using the console installation for UNIX systems, only Full and Runtime-only installation options are available.
	WARNING: Console installation is only for UNIX systems. Do not use -i console when installing for Windows.
	The Windows installer inadvertently run with -i console behaves like a silent installation with default options. In this case, the contents of C:\IONA, if any, are silently overwritten with a full installation of Artix.

Installing in Silent Mode

Overview	Silent installations are installations that run without user intervention. Their main advantage is that they allow you to automate the process of installing Artix on more than one machine.
	In an interactive installation, the installer receives necessary user input in response to questions posed in a GUI or console. In a silent installation, you must provide the same information in a properties file.
Creating the properties file	First, create a properties file to contain the response values for the silent installation. You can use any name for your properties file and invoke it with the -f option when running the installer. Or you can use the reserved file name installer.properties, which is automatically used by the installer.
	The easiest way to create a properties file is to go through the steps of an Artix installation, then save the properties of that installation to a file when so prompted at the end of the installation. You can then edit the saved properties file to adjust the way you want your silent installation to proceed. You can also create a properties file with any text editor.

Contents of properties file The properties file must contain entries for the variables listed in Table 6:

Variable	Description
USER_INSTALL_DIR	The directory where Artix will be installed on the user's machine
SET_PATH	Allows you to set the system environment variables IT_PRODUCT_DIR and PATH for all users on this destination machine, for only the current user, or not at all. Takes the following values: Do not set now All users Current user

Table 6:Properties File Variables

Variable	Description
SILENT_ACCEPT_LICENSE_AGREEMENT	Set to true to accept the Artix license agreement.
JDK_HOME	The path to the root of a JDK installation. This is only set if the selected VM is a JDK. If it is not a JDK, then this variable will have a blank value.
INSTALLER_UI	Set to silent for a silent installation
USER_INPUT_SAVE_PROPERTIES_YES_NO	Set to ${\tt No}$ for a silent installation.
USER_INPUT_INSTALL_TYPE	Takes one of the following values: Full Installation Custom Installation Runtime Installation
OPTIONAL_COMPONENT_LIST	Entries for this variable are only used when USER_INPUT_INSTALL_TYPE is set to Custom Installation. This variable is ignored otherwise.
	If used, this entry must be one long string containing a comma-separated list of values, with no spaces between entries. The valid values for this variable are shown in Table 7.

Table 6: Properties File Variables (Continued)

Note: When including directory paths in the properties file, you can represent path separators in the format $\frac{1}{5}$. This is read by the Artix installer as the correct path separator independent of operating system convention. For example: C: $\frac{1}{5}$

If you instead use backslashes in a properties file targeted for Windows systems, you must escape the backslashes by doubling them, and escape the colon in drive letters with a backslash. For example: $C : \$

The valid values for the OPTIONAL_COMPONENT_LIST variable are shown in Table 7.

Value	Description
artix.development.optional.eclipse	Installs an instance of the Eclipse framework with Artix plug-ins that enable Artix Designer and Artix Management Console.
artix.development.optional.ha	Installs support for high availability service replication, which allows services to remain operational despite hardware or communication failures.
artix.development.optional.locator	Installs the Artix locator service, which allows clients to locate registered services independent of their deployed location.
artix.development.optional.management	Installs support for integrating Artix with Enterprise Management Systems from several vendors.
artix.development.optional.mq	Installs support for interoperability with WebSphere MQ message queues.
artix.development.optional.routing	Installs the Artix router service, which can be used as a bridge between different communication protocols.
artix.development.optional.security	Installs the IONA Security Framework, which includes:
	 Support for the WS-Security SOAP header format
	 Support for single sign on and mutual authentication
	 IONA Security Service (role based access control and authentication)
	 Plug-ins to support File Adapter, Netegrity, LDAP

 Table 7:
 Valid values for OPTIONAL_COMPONENT_LIST

Value	Description
artix.development.optional.sm	Installs the Artix session manager, which can be used to control the number of clients that can access a group of services concurrently.
artix.development.optional.tibrv	Installs support for interoperability with the TIBCO Rendezvous messaging transport.
artix.development.optional.tm	Installs the Artix transaction manager, which supports interoperation with a CORBA OTS transaction system.
artix.development.optional.tuxedo	Installs support for interoperability with BEA Tuxedo middleware.

Table 7: Valid values for OPTIONAL_COMPONENT_LIST

Example properties file

An example of a properties file is shown below:

```
USER_INSTALL_DIR=C:$/$IONA
USER_INPUT_INSTALL_TYPE=Custom Installation
OPTIONAL_COMPONENT_LIST=artix.development.optional.eclipse,artix
.development.optional.locator,artix.development.optional.secu
rity,artix.development.optional.ha,artix.development.optional
.routing,artix.development.optional.tm,artix.development.opti
onal.sm
JDK_HOME=C\:\\Program Files\\Java\\j2sdkl.4.2_04
SET_PATH=Do not set now
SILENT_ACCEPT_LICENSE_AGREEMENT=true
USER_INPUT_SAVE_PROPERTIES_YES_NO=No
INSTALLER_UI=silent
```

Running the installer

To run the Artix installer in silent mode:

- 1. Save the properties file to the folder into which you extracted the installation package.
- 2. From the same folder, run the Artix installer with its -f option:

Windows

artix.exe -f your_properties_file

UNIX

./artix.bin -f your_properties_file

As an alternative, if you used the reserved file name installer.properties, you do not need to use the -f option:

Windows

artix.exe

UNIX

./artix.bin

When the Artix installation is complete, you need to install the Artix license file. For more information see "Installing Artix License Keys" on page 23.

Uninstalling a Silent Installation After a silent installation, the next uninstallation also runs silently.

Note: When running a silent uninstallation in Windows, the Add/Remove Control Panel's dialog box may appear to be hung. In fact, the silent uninstallation is proceeding silently. Control is returned to the dialog box when the uninstallation completes.

Installing Artix License Keys

Overview	 Before you can begin using Artix, you must install a valid product license. The license is a text file containing keys for the individual components that you have purchased. Typically, you receive your Artix license from IONA by e-mail. Save it to a location on your hard drive and then install it in one of the following ways: Automatically from the Artix installer (See "Installing in GUI Mode" on page 14) By running the License Installer script (See below) By manually copying the license file to the default location (See "Installing the license file manually" on page 24 By appending the Artix license to an existing IONA product license (See "Merging Artix and Orbix licenses" on page 34)
Running the License Installer	If you did not install your license keys during Artix installation, you can use the license installer script: To install a license using the license installer: 1. Run the license installer as follows: Windows From the Windows Start menu, select (All) Programs IONA Artix 4.0 License Installer. UNIX Run the following script: <i>ArtixInstallDir/artix/4.0/bin/license_installer</i> 2. In the Install Artix Licenses dialog box, click the Browse button. 3. Browse to the directory where you saved your license file. 4. Select the license file and then click Select . 5. The license file is added to the default license location. Click OK to close the license installer.

Installing the license file manually

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

ArtixInstallDir\etc

If you want to save the license file to an alternative location on your hard drive, you must set the <code>IT_LICENSE_FILE</code> environment variable to point to the alternate location.

Windows

set IT LICENSE FILE=license file path

UNIX

export IT LICENSE FILE=license file path

WARNING: If you have other licensed IONA products installed, setting IT_LICENSE_FILE may cause your existing products to stop working. See "Merging Artix and Orbix licenses" on page 34.

Setting up the Artix Environment

Setting the runtime environment

·	environment. To set the runtime environment do the following:
	Windows
	<pre>> cd ArtixInstallDir\artix\4.0\bin > artix_env</pre>
	UNIX
	<pre>% cd ArtixInstallDir/artix/4.0/bin %/artix_env</pre>
	This script sets up several Artix-specific environment variables, appends the Artix bin directory to the system search path, and appends the Artix shared library directory to the shared library path.
Setting the environment for Visual C++ 7.1	The default Artix for Windows installation presumes the compiler in use is Visual C++ 6.0. If you are using Visual C++ 7.1 (Visual C++ .NET 2003) as your compiler, you must run a one-time setup command to configure the runtime environment.
	To set the runtime environment to use Visual C++ 7.1, open a new command prompt session (that is, one in which you have not already run the artix_env script) and run the following:
	<pre>> cd ArtixInstallDir\artix\4.0\bin > artix_env -compiler vc71</pre>
	Note: You only need to use the <i>-compiler</i> switch one time to specify compiler version. Once the compiler version is set, you can run the

artix env script normally, without the switch.

Before you can run any Artix-based processes you must set up the runtime

Resetting the environment for Visual C++ 6.0	To reset the Artix runtime environment for Visual C++ 6.0, run the following from a new command prompt:
	<pre>> cd ArtixInstallDir\artix\4.0\bin > artix_env -compiler vc60</pre>
Setting the environment for 64-bit development	If you are running 64-bit Linux and plan to do 64-bit development you must set the Artix environment accordingly.
	To set the runtime environment for 64-bit development, open a command prompt in which you have not already run the <code>artix_env</code> script and run the following:
	<pre>> cd ArtixInstallDir\artix\4.0\bin > ./artix_env -bits 64</pre>
	Note: You only need to use the -bits switch one time to set specify 64-bit development. Once the bit level is set, you can run the artix_env script normally, without the switch.
Verifying the environment	To verify that the Artix environment is correctly set up, open a command prompt and run the following:
	Windows
	cd %IT ARTIX BASE DIR%
	UNIX
	cd \$IT_ARTIX_BASE_DIR
	Your working directory should change to the directory where you installed Artix.

Configuring Eclipse for Artix Designer

In this section

Depending on how you have set up your development environment, you may need to do some further Eclipse configuration.

This section contains the following topic:

Installing Artix Plug-ins into an Existing Eclipse Platform	page 28
Configuring Windows Eclipse for C++ Development	page 32

Installing Artix Plug-ins into an Existing Eclipse Platform

Overview	By default, the Artix installer installs a new Eclipse framework, including the Artix Designer and Artix Management Console plug-ins, onto your machine. However, you may want to use Artix Designer with an existing Eclipse platform.
	Note: Artix Designer 4.x and Artix Management Console 4.x must be used with Eclipse 3.1.
Eclipse prerequisites	To install and use the Artix plug-ins in your own instance of Eclipse, you must have:
	• Eclipse 3.1, including the Java Development Tools (JDT).
	• Eclipse Modeling Framework (EMF), version 2.1.0 or later.
	• EMF Service Data Objects (SDO), version 2.1.0 or later.
	• XML Schema Infoset Model (XSD), version 2.1.0 or later.
	• The C/C++ Development Tools plug-in (CDT), version 3.0.2 or later, if you plan to develop with C++.
	• A licensed installation of Artix 4.x on the same machine.
	Use Eclipse's Help About Eclipse SDK Feature Details button to confirm that you have the necessary Eclipse prerequisites.
Using the Eclipse update mechanism	Use the Eclipse update mechanism to download and install the Artix plug-ins. This method ensures that the Artix plug-ins you use are the most

up-to-date versions.

To add the Artix plug-ins to Eclipse, follow these steps:

1. In Eclipse, select **Help|Software Updates|Find and Install**. The Install/Update wizard launches.

Figure 1: The Feature Updates Panel of the Install/Update Wizard

eature Updates		(A)
Choose the way you want t	to search for features to install	
C. Search for updates of t	the currently installed features	
Sclect this option if you wan stalled	nt to search for updates of the features you	already have
. Search for new teature	s to instal	
Select this option if you wa	nt to instal new features from existing or ne	w update sites.
Select this option if you was some cites may already be	nt to instal new features from existing or ne available. You can add new update site URL	w update sites. s to the search.
Select this option if you wa some cites may already be	nt to instal new features from existing or ne available. You can add new update site URL	w update sites. 8 to the search.
Select this option if you wa some otec may already be	nt to nstal new features from existing or ne available. You can add new, update one URL	w update stas. s to the search.

- 2. In the Feature Updates panel, select **Search for new features to install**, then click **Next**.
- 3. In the Update Sites to Visit panel, click the New Remote Site button.
- 4. Enter the following details in the New Update Site dialog box:
 - Name: IONA Artix Plug-ins
 - URL: http://www.iona.com/downloads/artix/eclipse
- 5. Click OK.

Figure 2: Edit Remote Site dialog

른 Edi	Remote Site	×		
Name:	IONA Artix Plug-ins			
URL:	http://www.iona.com/downloads/artix/eclipse			
		-		
	OK	Cancel		

- 6. Select the **IONA Artix Plug-ins** check box and unselect all other boxes in the **Sites to Include** section.
- 7. Check the Ignore Features checkbox and click Finish.

Figure 3: The Update Sites to Visit Panel

Sites to include in search:	ster to include in search:	pdate sites to visit Seect update sites to visit while looking	for new features.	8
Bedpeelong CDT Site Edipselong CDT Site Edit Edit Edit Edit Edit Edit Edit Edit	Bedpeslong CDT Section 2015 Section 2015	sites to include in pearch:		
Image: State State New Local Strett, New Local Strett, New Local Strett, New Local Strett, New Archiver, Strett, New Archiver, Strett, New Archiver, Strett, St	VEEdosc.org update site VerVical Si	Edipse.org CCT		New Remote Site
Still EVE AD UD SD Secondary Update Site New Archiver: Still Still EVE AD UD SD Secondary Update Site Still EVE AD UD SD Secondary Update Site Still EVE AD UD SD Secondary Update Site Still EVE AD UD SD Secondary Update Site Still EVE AD UD SD Secondary Update Site Still EVE AD UD SD Secondary Update Site Still EVE AD UD SD Secondary Update Site Still EVE AD UD SD Secondary Update Site Still EVE AD UD SD Secondary Update Site Still EVE AD UD SD Secondary Update Site Still EVE AD UD SD Secondary Update Site Still EVE AD UD SD Secondary Update Site	Weisers NDU/NSD Secondary Update Site New Antiver, Site Wite Unit 2 Update Site Edit Because Edit Disport sites Export sites	Gipselorg update site Gipselorg SDK 3.1.x Updates		New Local Site
Image: State State Edit Endpoint State Edit	CONALATERIZATIONS Site Store Edit Remove Import altes Export sites	EMEADUASD Secondary Upda	ate Site	New Archiver Sile
Ect Featore Import Stes	Bdt Remove Import sites Export sites	IONA Artix PLg ins UML2Update Site		
Ensore Import Stes	Entrove Import sites Export sites			Edit
Import sites	Import sites Export sites			Femove
	Export sites			Import sites
Export sites				Export sites
Ignore features not applicable to this environment				
Ignore teatures not applicable to this environment				
Ignare teatures no: applicable to this environment				

- 8. Eclipse contacts the specified URL and returns with a list of available Eclipse plug-ins at that site.
- 9. In the Search Results panel, check the Show the latest version checkbox. Select the check boxes beside all IONA Artix Plug-ins entries, then click Next.
- 10. Accept the license agreement and click Next.
- 11. In the **Installation** panel, confirm the target installation location and click **Finish** to begin the installation.

Post-download steps	After downloading and installing the Artix plug-ins to your separate Eclipse installation, you must create startup scripts. In the steps that follow, the top level of your non-IONA separate Eclipse directory is abbreviated as <i>YourEclipseDir</i> .		
	1.	Copy both start_eclipse[.bat] and start_mgtconsole[.bat] files to YourEclipseDir.	
	2.	Copy the log4j.properties file to YourEclipseDir.	
	3.	In both copied script files, remove or comment out the line that changes directory to the Artix-installed version of Eclipse.	
	4.	In both copied script files, change the path in the -Dlog4j.configuration parameter to point to	
Running self-installed Artix Designer and ManagementTo run the Artix Designer and own copy of Eclipse, you m the same machine. Your ed 		un the Artix Designer and Artix Management Console plug-ins in your copy of Eclipse, you must have a licensed installation of Artix 4.x on same machine. Your edited <pre>start_eclipse[.bat]</pre> script calls the ronment setting script from the Artix installation. The Artix libraries and o files are used from the Artix installation.	
	You can have two or more instances of Eclipse on the same machine without conflict. There is no need to remove the Artix-installed instance of Eclipse if you prefer to use Artix Designer integrated in your own instance of Eclipse.		
	Whe Eclip by th men shee	en you use Artix Designer or Artix Management Console in your own ose instance, the same features are present as in the versions installed he Artix installer. This includes the Artix perspectives, the Artix Designer and the Artix additions to the help system, tutorials, and cheat ets.	

Sourcing Visual C++ in the

start eclipse script

Configuring Windows Eclipse for C++ Development

Overview

This step applies if you are running Artix Designer on Windows and you plan to create C++ applications. This step applies equally when running Artix Designer:

- within the Eclipse platform installed by the Artix installer
- within a separately installed instance of Eclipse

The start_eclipse.bat script contains additional parameters needed to launch Eclipse with the Artix Designer plug-ins loaded.

You must source your Visual C++ startup script in the start_eclipse.bat
script before you perform any C++ development with Artix Designer.

To edit the start eclipse script:

- 1. Using a text editor, open the start_eclipse.bat file.
- 2. Add the following line before the call to artix_env.bat:

Visual C++ 6.0

call "C:\Program Files\Microsoft Visual Studio\vc98\bin\vcvars32.bat"

Visual C++ 7.1

call "C:\Program Files\Microsoft Visual Studio .NET
2003\Common7\Tools\vsvars32.bat"

If you installed Visual C++ in a non-default location, then adjust the $_{call}$ line as appropriate for your machine.

Once you have edited the start_eclipse.bat script, shut down Eclipse and run the start eclipse again to relaunch Artix Designer.

Installing Artix with Orbix

Overview

There are two possible reasons for installing Artix on the same machine as Orbix:

- To allow Orbix applications to use Artix functionality. For example, you may want to embed the Artix routing plug-in into an Orbix application.
- To enable Artix applications to use Orbix enterprise features, such as the Name Service.

Choosing an installation directory

There are two ways of installing Artix and Orbix on the same machine:

- Install both products in a common *ArtixInstallDir* directory, such as C:\IONA
- Install the products in separate directories

There are advantages and disadvantages to both approaches, as described in Table 8.

Destination	Advantages	Disadvantages
Common directory	Merges license files in the ArtixInstallDir/etc	Restricted to Artix 4.0 and Orbix 6.3.
	directory.	Orbix must be installed
	Overwrites and updates Orbix library files in the ArtixInstallDir/bin directory.	first.
	Allows you to set the IT_PRODUCT_DIR and PATH environment variables at install time.	

 Table 8:
 Installation directory comparison

	Destination	Advantages	Disadvantages
	Separate directories	Can be used with Orbix 6.2 and earlier.	No merging of license files.
			Duplicates some libraries in each product's ArtixInstallDir/bin
			directory.
			IT_PRODUCT_DIR and PATH environment variables cannot be set at install time.
Merging Artix and Orbix licenses	If you install Ar installer automa in the ArtixIns	tix into the same top-level direct atically appends the Artix licens stallDir/etc directory.	tory as Orbix 6.3, the Artix e to the existing Orbix license
	However, if you and you want y merge the two	I choose to install Artix and Orb our Orbix applications to access license files using a text editor.	ix into separate directories, s Artix functionality, you must
	IONA recommends that you preserve your existing Artix and Orbix license files, and save the merged license file in a new location.		
	You then need to point to the location of the merged license in a		
	SET IT_LICENSE_FILE=		
	command in th	e DomainName_env file for your	Orbix application.

 Table 8:
 Installation directory (Continued)comparison

Combining Artix and Orbix configuration files

By default, the Artix configuration file is installed in:

ArtixInstallDir/artix/version/etc/domains/artix.cfg

Once you have Artix and Orbix installed on the same machine, you need to reference the Artix configuration file from within the Orbix configuration file: You can do this in one of the following ways:

1. By adding the following include statement to the bottom of the Orbix configuration file:

```
artix {
    include "ArtixInstallDir/artix/version/etc/domains/
    artix.cfg";
};
```

2. By adding a new scope containing the entire contents of the artix.cfg file to the bottom of the Orbix configuration file, as follows:

```
artix {
   ContentsOfArtixConfigFile
};
```

3. By adding the following include statement to the bottom of the Orbix configuration file:

```
include "ArtixInstallDir/artix/version/etc/domains/
artix.cfg";
```

Then open the artix.cfg file and add an artix scope around the entire contents of the file, as follows:

```
artix {
   ContentsOfArtixConfigFile
};
```

Running Orbix and Artix applications

Overview	If you combine your Artix and Orbix configuration files, take into account the implications described in this section when running Orbix or Artix applications.
Running an Orbix application in a pure Orbix environment	To run an Orbix application under a pure Orbix environment, use the <i>DomainName_</i> env file, which references the Orbix <i>DomainName.cfg</i> file. As long as your application's ORBname does not include artix as the initial scope name, the Artix configuration information is ignored.
Running an Artix application in a pure Artix environment	To run an Artix application under a pure Artix environment, use the <pre>artix_env file, which references the artix.cfg file.</pre> If you used the third approach to combining the Artix and Orbix configuration files, all Artix applications will need to run under a scope that
	starts with artix.
Running Artix/Orbix applications that use the other product's functionality	 To run either an Artix or an Orbix application that references the other product's functionality, create an application-specific environment file that: References the location of the Orbix <i>DomainName.cfg</i> file Includes artix as the initial scope of the application's ORBname Sets the location of the merged license file (IT_LICENSE_FILE) Sets the PATH environment variable, including the Artix directories first, then the Orbix directories
	The application reads all the Orbix configuration information first and then reads all of the Artix configuration information.
	If the same configuration entry is encountered twice, the Artix value takes precedence because it is contained in the nested scope. (All the Orbix entries are at global scope, whereas all the Artix entries are within the artix scope.)

CHAPTER 3

Uninstalling Artix

This chapter describes how to uninstall Artix.

In this chapter

This chapter contains the following sections:

Uninstalling Artix Designer	page 38
Uninstalling on Windows	page 39
Uninstalling on UNIX	page 40

Uninstalling Artix Designer

Uninstalling from the Artix Eclipse platform	If you are running Artix Designer and the Artix Management Console from the Eclipse platform that was installed along with Artix, Eclipse is removed when you uninstall Artix.		
Uninstalling from an existing Eclipse platform	If you added the Artix Designer plug-ins to an existing Eclipse installation, you must delete the plug-ins manually to uninstall them.		
	To delete the Artix Designer plug-ins that you manually installed into Eclipse:		
	1. Shut down Eclipse.		
	2. Go to your <i>EclipseInstallDir/</i> plugins directory.		
	3. Delete all the plug-in folders whose names begin with com.iona.bus.		

4. Restart Eclipse.

Uninstalling on Windows

Uninstalling Artix

To uninstall Artix on Windows:

- 1. From the Windows Start menu, select (AII) Programs IONA Artix 4.0 | Uninstall Artix.
- 2. Click Uninstall.

As an alternative, you can run the following from a command prompt:

ArtixInstallDir\artix\version\uninstall\uninstall artix version.exe

Note: Remember that after a silent installation, the next uninstallation is also run silently.

Uninstalling on UNIX

Uninstalling Artix

To uninstall Artix on UNIX, run the following script:

ArtixInstallDir/artix/version/uninstall/Uninstall_artix_version

Note: Remember that after a silent installation, the next uninstallation is also run silently.

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