Progress | Artix

Installation Guide

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Preface

What This Book Covers

This book discusses the prerequisites for installing Artix and the procedures for installing, configuring, updating, and uninstalling Artix.

Who Should Read This Book

This book is written for those responsible for installing Artix and assumes familiarity with:

- The hardware and software Artix interacts with.
- The user interfaces, graphical and character, used by Artix and by the hardware and software Artix interacts with.

How to Use This Book

This book contains the following chapters:

- Chapter 1, Prerequisites, discusses the things you should do and think about before installing Artix.
- Chapter 2, Installing Artix, describes various ways of installing Artix.
- Chapter 3, Configuring Artix, discusses the things you might have to do or think about after installing Artix.
- Chapter 4, Uninstalling Artix, describes how to uninstall Artix.

Artix Documentation Library

For information on the entire Artix Documentation Library, including organization, contents, conventions, and reading paths, see Using the Artix Library.

See the entire documentation set, at the Artix Product Documentation Web Site.

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CHAPTER 1

Prerequisites

This chapter discusses what you should do and think about before installing Artix.

In this chapter

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Pre-Installation Tasks

Overview

This section discusses what you should do before installing Artix.

Read the release notes

Before installing Artix:

- Visit the Artix 5.6.2 Product Documentation Web page.
- 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 Artix 5.6.2 Product Documentation Web page.

Ensure you have a JDK installed

Installing Artix 5.6.2 requires a JDK:

- Verify that your system has at least JDK 1.6 installed.
- If your Java version is not up to date, download and install the latest JDK 1.6.x prior to installing Artix 5.6.2

Pre-Installation Considerations

Overview

This section discusses what you should think about before installing Artix.

In this section

This section discusses the following topics:

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Supported Platforms, JREs, and JDKs

For the latest information on supported operating systems, hardware platforms, JREs, and JDKs, see the Artix Platform Support Web page.

Java JRE and JDK Requirements

Override default JRE for Red Hat systems

Red Hat Enterprise Linux ships with a GCC-based Java compiler, `gcj`, which you may find installed, to provide the system default `java` and `javac` commands. Artix command-line tools do not support the GCC Java environment, so you must install an Oracle JDK, and then take steps to ensure that its `java` and `javac` commands are used by Artix.

The simplest override method is to install a supported Oracle JDK in its default location, and then specify the location of the Oracle JDK during Artix installation.

You can also manage your Oracle JDK installation with one or more of the following methods:

- Specify the Oracle JDK location in a global `JAVA_HOME` environment variable, as described in "Setting the JAVA_HOME Environment Variable" on page 34.
- Replace the default Java-related symbolic links in `/etc/alternatives`.
- Integrate the Oracle JDK into Red Hat's alternatives system, as described in the **`man`** page **`alternatives(1)`**.

Interoperability

Overview

This section describes how Artix components interoperate with other Artix components and with third-party products.

Messaging

Artix supports the following messaging products:

- IBM WebSphere MQ 7.1
- SonicMQ 7.x, 8.x

Transports

Artix supports the following transports:

- SOAP 1.1 and 1.2
- IIOP 1.1 and 1.2
- HTTP

Application servers

The Artix J2EE Connector (JAX-WS) supports the IBM WebSphere 8.5 application servers.

The JAX-WS application server support applies to the operating systems that are supported by both Artix and the relevant application server.

Virtualization Support Requirements

Overview

Virtualization is the process of sharing the resources of a single computer across multiple environments, and thereby enabling one computer to do the job of many. Artix 5.6.2 provides virtualization support on selected platforms.

Supported platforms for virtualization

Artix 5.6.2 includes support for virtualization on the following supported platforms:

- Windows
- Red Hat Enterprise Linux

Note: Each of the above platforms is supported on VMware ESX/ESXi 3.5.0.

RAM Requirements

RAM requirements for development tools	Artix is a development environment that is used in conjunction with other development tools, such as compilers. As such, the Artix tools do not consume more RAM than the associated toolset. Check with the vendor of the compiler and JDK for your operating system for their minimum RAM requirements. A typical minimum RAM requirement for compilers and JDKs is 512 MB.
RAM used by Artix servers	Each hosted server adds another few KB (Windows) or 20+ KB (Linux). A complex Artix bus with many containers and services might consume several hundred KB of RAM. Memory consumption for Solaris, AIX, and HP-UX is comparable to the Linux numbers.

Disk Space Requirements

Overview

This section lists the amount of permanent and temporary disk space required for different installations of Artix 5.6.2.

Artix installation disk space

The disk space requirements for Artix depend on the installation options selected. Table 1 shows the approximate disk space in megabytes for full and runtime-only installations.

Table 1: *Disk Space Used by Artix Installations (Megabytes)*

Installation Type	Windows	UNIX/Linux
Full installation	75	79
Runtime-only installation	58	60

Artix installer disk space

The disk space used by the Artix installer package is shown in Table 2.

Table 2: *Disk Space Used by the Artix Installer (Megabytes)*

Platform	Size in Meabytes
Windows	55
UNIX/Linux	57

Temporary disk space

In addition to the requirements in Table 1 and Table 2, you will need 60 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
```

CHAPTER 2

Installing Artix

This chapter describes various ways of installing Artix.

In this chapter

This chapter contains the following sections:

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Running the Artix Installer

Downloading an installation package

The Artix 5.6.2 installation package is available for download from Progress ESD Download Center, http://www.progress.com/esd.

The following installation packages are available:

Table 3: *Artix Installation Packages*

Platform	File name
Windows	`PROGRESS_ARTIX_JAVA_5.6.2_WIN.exe`
UNIX/Linux	`PROGRESS_ARTIX_JAVA_5.6.2_UNIX.bin.gz`

Installer restrictions

The Artix 5.6.2 installer has the following restriction:

- When installing Artix 5.6.2 on Windows platforms, you must not install into a top-level folder whose pathname contains a space. For example, do not install into `C:\Program Files\Progress`. If you do, the settings of `PATH` and `CLASSPATH` in the `artix_env.bat` file, and the sample build scripts will be incorrect.

Installation modes

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

- "Installing in GUI Mode" on page 25.
- "Installing in Console Mode" on page 27.
- "Installing in Silent Mode" on page 28.

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

   Windows

   ```
   PROGRESS_ARTIX_JAVA_5.6.2_WIN.exe
   ```

   UNIX/Linux

   ```
   ./PROGRESS_ARTIX_JAVA_5.6.2_UNIX.bin
   ```

2. Follow the on-screen instructions and respond to each prompt.

Use the information in Table 4 as a guide when selecting installation options as the installation proceeds.

Table 4: *Artix Installation Options*

Platform	Installation Option	Default	Notes
All	The **Choose Install Folder** panel lets you select the top-level directory for your Artix installation.	Windows: `C:\Progress\artix_5.6.2` UNIX: `/opt/progress/artix_5.6.2`	On Windows, do *not* specify a directory whose pathname contains spaces, For example, do not specify a directory under `C:\Program Files`. On UNIX and Linux, specify the absolute path to a directory in which your current login name has full read and write permissions. Do not use the ~ abbreviation for home directory.
All	The **Choose Install Set** panel lets you select the components you wish to install.	Full	Specify the runtime-only option when deploying an Artix service for testing or production on a system other than your development system. See Table 6 on page 29 for help in deciding which options to install.

Table 4: *Artix Installation Options (Continued)*

Platform	Installation Option	Default	Notes
All	The **Choose Java Virtual** Machine panel lets you select a JVM.		The installer might not identify 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.
Windows only	The **Choose Shortcut Location** panel lets you specify a location for product icons.	The **Start	(All) Programs	Progress** menu for all users	You can select only one location. Some of the location options also allow you to select the **Set for all system users** checkbox. The default is to set up the shortcuts for the current user only.

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

Installing in Console Mode

Overview

You can choose to run the Artix installer in console mode.

Running the installer

To run the Artix installer in console mode:

4. Navigate to the directory into which you extracted the installation package and run the installer:

   Windows

   ```
   .\PROGRESS_ARTIX_JAVA_5.6.2_WIN.exe -i console
   ```

   UNIX/Linux

   ```
   ./PROGRESS_ARTIX_JAVA_5.6.2_UNIX.bin -i console
   ```

5. Follow the on-screen instructions and respond to option prompts. Use the information in Table 4 on page 25 as a guide when selecting installation options as the installation proceeds.
6. The installer prompts you to specify the type of install. Your installation type choices are:
   - → 1 — Full installation (all component)
   - → 2 — Artix Runtime only.

Installing in Silent Mode

Overview

Silent installations are installations that run without user intervention. Their 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. Alternatively, you can use the reserved file name `installer.properties`, which is automatically used by the installer.

Contents of properties file

The properties file must contain entries for the variables listed in Table 5:

Table 5: *Properties File Variables*

Variable	Description
JDK_HOME	The path to the root of a JDK or JRE installation. If this variable is set, the installation uses the JDK or JRE specified. If unset, the installation installs a dedicated JRE.
SILENT_ACCEPT_LICENSE_AGREEMENT	Set to `true` to accept the Artix license agreement
USER_INSTALL_DIR	Absolute path to the directory where Artix will be installed on the user's machine
INSTALLER_UI	Set to `silent` for a silent installation
USER_INPUT_SAVE_PROPERTIES_YES_NO	Set to `No` for a silent installation
CHOSEN_INSTALL_FEATURE_LIST	This entry must be one long string containing a comma-separated list of feature codes, with no spaces between entries. The valid feature codes for this variable, shown in Table 6, specify the Artix components you want to install. To specify a Full installation, you must list all group components in Table 6.

The valid values for the `CHOSEN_INSTALL_FEATURE_LIST` variable are shown in Table 6.

Table 6: *CHOSEN_INSTALL_FEATURE_LIST Feature Codes*

Feature Code	Description
ArtixJavaRt	Installs runtime components without tooling and samples.
ArtixJavaS&T	Installs samples and tooling.

Example properties file

An example of a properties file is shown below:

```
SILENT_ACCEPT_LICENSE_AGREEMENT=true
SET_PATH=
INSTALLER_UI=silent
USER_INSTALL_DIR=C\:\\Progress\\artix_5.6.2
USER_INPUT_SAVE_PROPERTIES_YES_NO=No
CHOSEN_INSTALL_FEATURE_LIST=ArtixJavaRt,ArtixJavaS&T
JDK_HOME=
```

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

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\:\\Progress`.

Running the installer

To run the Artix installer in silent mode:

1. Save the properties file to the directory into which you extracted the installation package.
2. From the same directory, run the Artix installer with its `-i silent` and `-f` options (where *`file`* is your properties file):

   Windows

   ```
   .\PROGRESS_ARTIX_JAVA_5.6.2_WIN.exe -i silent -f file
   ```

   UNIX/Linux

   ```
   ./PROGRESS_ARTIX_JAVA_5.6.2_UNIX.bin -i silent -f file
   ```

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

   Windows

   ```
   .\PROGRESS_ARTIX_JAVA_5.6.2_WIN.exe -i silent
   ```

   UNIX/Linux

   ```
   ./PROGRESS_ARTIX_JAVA_5.6.2_UNIX.bin -i silent
   ```

Uninstalling a silent installation

After performing 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 might appear to be hung. In fact, the silent uninstallation is proceeding silently. Control is returned to the dialog box when the uninstallation completes.

CHAPTER 3

Configuring Artix

This chapter discusses the things you might have to do or think about after installing Artix.

In this chapter

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Setting the JAVA_HOME Environment Variable

Windows and JAVA_HOME

Set the JAVA_HOME environment variable before running the `artix_java_env.bat` scripts to set up your command-line development environment.

To set the JAVA_HOME environment variable globally for your Windows system, use the **System** Control Panel, **Advanced** tab, **Environment Variables** button. It is not enough to set the variable at the Windows command prompt. Use the 8.3 version of space-containing directory names.

For example:

```
JAVA_HOME=C:\Progra~1\Java\jdk1.6.0
```

To determine the 8.3 version of a file or directory name, use the `dir /x` command at a Windows command prompt.

Note: The JRE and JDK installers from Oracle do not set the JAVA_HOME environment variable.

UNIX/Linux and JAVA_HOME

The Artix installer sets a value for the JAVA_HOME environment variable near the top of the `artix_java_env` environment-setting scripts. The path value set is either the path to the bundled JRE, or the path to the alternate JRE or JDK you specified to the installer. Any setting of JAVA_HOME in the shell's global environment takes precedence over the setting in the `artix_java_env` script.

Red Hat Linux systems ship with a Java JRE and JDK based on GCC `gcj`. To avoid using the Red Hat default `java` and `javac` commands, you must specify the path to an Oracle JRE or JDK during Artix installation, or you must override the path set by the installer by using the JAVA_HOME environment variable. See "Override default JRE for Red Hat systems" on page 15 for further information.

Configuring the Artix Command-Line Environment

Setting the Artix development environment for the Java JAX-WS runtime

Run the `artix_java_env` script to set all the environment variables required for using tools for the Java JAX-WS runtime.

Windows

```
> cd ArtixInstallDir\bin
> artix_java_env
```

UNIX

```
% cd ArtixInstallDir/bin
% . ./artix_java_env
```

CHAPTER 4

Uninstalling Artix

This chapter describes how to uninstall Artix.

In this chapter

This chapter contains the following sections:

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Uninstalling on Windows

Uninstalling Artix

To uninstall Artix from Windows:

1. From the Windows **Start** menu, select:
   (All) Programs|Progress |Artix 5.6|Uninstall Progress Artix 5.6.
2. In the resulting dialog, 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 also runs silently.

Uninstalling on UNIX or Linux

Uninstalling Artix

To uninstall Artix on UNIX or Linux, run the following script:

```
ArtixInstallDir/artix_version/uninstall/Uninstall_artix_version
```

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

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