Artix™ Data Services

Installation Guide

Version 3.8, September 2008

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Preface

What This Book Covers

This book discusses the prerequisites and steps for installing Artix Data Services.

Who Should Read This Book

This book is intended for anyone who wants to install Artix Data Services. It assumes that the user has a prior familiarity with the operating systems that Artix Data Services supports.

How This Book Is Structured

This book contains the following sections

- "Installation Prerequisites" describes the supported platforms, supported compilers, and other prerequisites for installing Artix Data Services.
- "Installation Steps" describes how to install Artix Data Services either from the IONA Downloads page or using Java Web Start.
- "Installed Components" describes the various components of an Artix Data Services installation.
- "Uninstalling Artix Data Services" describes how to subsequently uninstall Artix Data Services on Windows or Linux, if necessary.
- "For More Information and Other Resources" provides links to various sources of information and assistance relating to IONA products.

Artix Data Services Documentation Library

For information on the organization of the Artix Data Services documentation library, and the document conventions used, see the Artix Data Services *Documentation Library Overview* at http://www.iona.com/support/docs/artix/data_services/3.8/index.xml

Installing Artix Data Services

Overview

This guide describes how to install Artix Data Services 3.8 on Windows, Linux, or Mac OS X. Before you install, ensure that you read "Installation Prerequisites" on page 8 first.

In this guide

This guide discusses the following topics:

Installation Prerequisites	page 8
Installation Steps	page 10
Installed Components	page 16
Uninstalling Artix Data Services	page 20
For More Information and Other Resources	page 21

Installation Prerequisites

Overview

This section describes the prerequisites for installing Artix Data Services.

Supported platforms

Artix Data Services 3.8 is supported on the following operating systems:

Design Time:

- Windows XP SP2
- Red Hat Enterprise Linux AS 4.0 (64-bit)
- Mac OS X 10.5.2 (Leopard)

Runtime:

- Windows XP SP2
- Red Hat Enterprise Linux AS 4.0 (64-bit)
- Solaris 2.9

Supported databases

Artix Data Services 3.8 is supported for use with MySQL 5.0.

Java JRE and JDK requirements

The Artix Data Services installation set includes an embedded JDK specificially for use by Artix Data Services, so there are no external JDK/JRE requirements.

Apache ANT requirements

The Artix Data Services installation set includes an ANT file specifically for use by Artix Data Services, so there are no external ANT requirements.

Java preferences

A lot of information relating to the Artix Data Services Designer environment is stored using Java preferences. This information includes, for example, window layout and positioning, recently-used-file lists, default project file location, and path to web browser.

On Windows machines, these values are stored in the registry under `HKEY_CURRENT_USER\Software\JavaSoft\Prefs` and are prefixed by `com\iona`.

On Linux machines, system preferences are stored under `etc/.java` and user preferences are stored under `~/.java`. They are prefixed by `com/iona`.

If you install Artix Data Services on a machine that has had a previous installation of Artix Data Services, these values are preserved.

License requirements

The name of the license key file for Artix Data Services takes a format of `license`*`filename`*`.dat`. It is located at the root of your Artix Data Services installation directory. Only one such license file should exist. Otherwise, you will be prompted with an error message when you start Artix Data Services.

WARNING: Tampering with the license file disables the software and any data models that you have created with it.

Installation Steps

Overview

This section describes two alternative methods of installing Artix Data Services. You may choose to use either method.

In this section

This section discusses the following topics:

Using Java Web Start	page 11
Using the IONA Downloads Page	page 12

Using Java Web Start

Overview

You may use Java Web Start to deploy Artix Data Services over the Internet with just a single click. It is provided as an alternative to the more conventional method of installing the product. Using Java Web Start ensures that you are running the latest version of the product.

Note: Java Web Start is included in the Java Runtime Environment as part of Java SE 6.

Steps

1. Open a Web browser.
2. If “Install ActiveX” appears at the top of your browser, click that link and follow the relevant instructions to install ActiveX first.
3. Enter the following URL in your Web browser to install and automatically open Artix Data Services:

```
ftp://ftp.iona.com/down/artix/dataservices/3.8.0/webstart/Artix-DS-3.8.0.jnlp
```

Note: If Artix Data Services is not installed and opened at this point, you need to install the latest version of the JDK from http://www.java.com/en/download/manual.jsp.

Opening Artix Data Services after initial installation

To reopen Artix Data Services on subsequent occasions, select **Start** > **Run** and then enter “javaws -viewer”.

Using the IONA Downloads Page

Overview

Artix Data Services is supplied as a self-standing complete installation set that can be downloaded from the IONA web site. It includes an embedded JDK specifically for use by the product. During the installation process you are prompted to specify an installation directory as well as a location for your JDK, the working data files for your projects and other advanced optional parameters This section describes the steps to install Artix Data Services.

Windows Steps

Follow these steps to install Artix Data Services on Windows:

1. Open a Web browser and go to the http://www.iona.com/downloads/artix/welcome.htm page.
2. Click the **Download** button beside Artix Data Services. This opens the **Please sign in** page.
3. Click the **please sign up for a New User account** link. This opens the **New User Registration** page.
4. Enter your details as required, ensuring that you fill in all fields marked with an asterisk (that is, *). Then click **Register**. This results in an e-mail being sent from IONA to your specified e-mail address.
5. Open the e-mail that you receive from IONA and click on the URL that it contains. This opens the **Welcome back** page.
6. Enter your e-mail and password details. Then click **Submit**. This opens the **Export Questionnaire** page.
7. Click **Accept**. This opens the **Download Artix Data Services** page.
8. Click the HTTP or FTP link under the Windows Exe Installer section, to save the `Artix-DS-3.8.0.exe` file to your machine.
9. Navigate to the location on your machine where you saved the `Artix-DS-3.8.0.exe` file and double-click it. This opens the InstallShield wizard followed by the welcome page displaying information about Artix Data Service Designer.
10. Click **Next**. This opens the **License agreement** page.

11. Ensure that the **I accept the terms in the license agreement** radio button is selected and click **Next**. This opens the **Destination folders** page where you can specify the location of your installation directory and your project working files.

    In this case, the **Installation Location** should be displayed as C:\:Program Files\IONA\Artix Data Services.

    The **Store my projects in** folder should be displayed as C:\Documents and Settings*username*\My Documents\My IONA Projects.

    Note: You may change these default settings if you wish.

12. Click **Next**. This opens the **Ready to Install the Program** page.
13. Click **Install**. This installs Artix Data Services on your machine in the specified installation location.

Linux Steps

Follow these steps to install Artix Data Services on Linux:

1. Open a Web browser and go to the http://www.iona.com/downloads/artix/welcome.htm page.
2. Click the **Download** button beside Artix Data Services. This opens the **Please sign in** page.
3. Click the **please sign up for a New User account** link. This opens the **New User Registration** page.
4. Enter your details as required, ensuring that you fill in all fields marked with an asterisk (that is, *). Then click **Register**. This results in an e-mail being sent from IONA to your specified e-mail address.
5. Open the e-mail that you receive from IONA and click on the URL that it contains. This opens the **Welcome back** page.
6. Enter your e-mail and password details. Then click **Submit**. This opens the **Export Questionnaire** page.
7. Click **Accept**. This opens the **Download Artix Data Services** page.
8. Right-click the FTP or HTTP link under the Linux Bin Installer section, to save the `Artix-DS-3.8.0.bin` file to your machine.
9. If you have not already set up your Java path, enter the following command:

```
export JAVA_HOME=/x1/jrel.5.0_16
```

10. Ensure that you have set up the necessary permissions to execute `Artix-DS-3.8.0.bin`.
11. Enter the following command to execute the installer:

    ```
    ./Artix-DS-3.8.0.bin
    ```

    This opens the InstallShield wizard followed by the welcome page displaying information about Artix Data Service Designer.
12. Click **Next**. This opens the **License agreement** page.
13. Ensure that the **I accept the terms in the license agreement** radio button is selected and click **Next**. This opens the **Destination folders** page where you can specify the location of your installation directory and your project working files.

    In this case, the **Installation Location** should be displayed as /opt/IONA/Artix Data Services.

    The **Store my projects in** folder should be displayed as /userhome/My IONA Projects.

    Note: You may change these default settings if you wish.
14. Click **Next**. This opens the **Ready to Install the Program** page.
15. Click **Install**. This installs Artix Data Services on your machine in the specified installation location.

Mac OS X steps

Follow these steps to install Artix Data Services on Mac OS X:

1. Open a Web browser and go to the http://www.iona.com/downloads/artix/welcome.htm page.
2. Click the **Download** button beside Artix Data Services. This opens the **Please sign in** page.
3. Click the **please sign up for a New User account** link. This opens the **New User Registration** page.
4. Enter your details as required, ensuring that you fill in all fields marked with an asterisk (that is, *). Then click **Register**. This results in an e-mail being sent from IONA to your specified e-mail address.
5. Open the e-mail that you receive from IONA and click on the URL that it contains. This opens the **Welcome back** page.

6. Enter your e-mail and password details. Then click **Submit**. This opens the **Export Questionnaire** page.
7. Click **Accept**. This opens the **Download Artix Data Services** page.
8. Click the FTP or HTTP link under the Mac Dmg Installer section, to save the `Artix-DS-3.8.0.dmg` file to your machine.
9. Ensure that the Save to Disc button is checked and click OK. This downloads the Artix Data Services installation set to your machine.
10. Navigate to the location on your machine where you saved the `Artix-DS-3.8.0.dmg` file and double-click it. This mounts the new drive on your desktop.
11. Open the new drive and double-click `Artix-DS-3.8.0.mpkg`.
12. Click **Continue**. This opens the **License agreement** page.
13. Accept the license agreement and click **Continue**.
14. Click **Install**. This installs Artix Data Services on your machine.
15. To install the license file, navigate to the **Applications** folder, right-click **Artix Data Services Designer**, select **Show Package Contents**, and copy the license file to the folder that is opened.

Opening Artix Data Services

To subsequently open Artix Data Services, do any of the following:

Windows

- Select **Programs|IONA|Artix Data Services|Artix DS Designer** from the Start menu.
- Click the Artix Data Services Designer icon on your Windows desktop.
- Use Windows Explorer to navigate to your Artix Data Services installation directory and double click `artix-ds-designer.exe`.

UNIX:

- Run the `artix-ds-designer` command prompt from your Artix Data Services installation directory.

Mac OS X:

- Under **Applications**, double-click **Artix Data Services Designer**.

Installed Components

Overview

This section describes the various components of your Artix Data Services installation.

Default installation directory

By default, Artix Data Services is installed into the following location:

Windows

C:\Program Files\IONA\Artix Data Services

Linux

/opt/iona/Artix Data Services

Installation directory structure

Your installation of Artix Data Services includes all of the following sub-directories and files under the specified installation directory:

`/docs`	This subdirectory contains Javadoc for the Artix Data Services API.
`/jdk`	This subdirectory contains JDK information that is required to run Artix Data Services on your machine.
`/lib`	This subdirectory contains library .jar files required by Artix Data Services.
`artix-ds.ja`	This file is used for specifying runtime memory usage.
`artix-ds-designer.exe`	This file is used to start Artix Data Services Designer.
`artix-ds-diff.exe`	This file is used to start the Diff Tool.
`license-`*`filename`*`.dat`	This is your product license file.
`Notices.txt`	This file provides legal notices of the various third-party technologies that Artix Data Services incorporates which are not proprietary to IONA.
`README`	This file provides details about how to join the customer forum, and about issue tracking and reporting.

Note: None of these files or sub-directories should be removed from the installation directory. With the possible exception of `.ja` files, none of these files should be modified.

Note: The `artix-ds.ja` file will need to be modified, for example, to include a line entry that identifies the location of the TARGET2 directory for use by the TARGET2 validator. See the "Standards Libraries" section of the Artix Data Services User Guide for more details.

Default projects folder

By default, your Artix Data Services projects will be stored in the following location:

Windows

C:\Documents and Settings*username*\My Documents\My IONA Projects

Linux

/userhome/My IONA Projects

Projects folder structure

Your installation of Artix Data Services includes all of the following sub-directories under the specified projects folder:

`/_Application Files`	This subdirectory contains an `artix-ds.cp` file which is used for including files in the classpath.
`/Examples`	This subdirectory contains supplied data models and transforms that demonstrate a basic example as well as API functions across a range of standards libraries. **Note:** This subdirectory is empty when you initially install Artix Data Services. To populate it, you must double click `artix-ds-designer.exe` in your installation directory to open Artix Data Services Designer. Then click the various **download** links in the **Example** column of the **Demos** table in the Artix Data Services Designer workbench.

`/Getting Started Guide`	This subdirectory contains a Getting Started guide and a series of video tutorials to help you familiarise with using Artix Data Services. **Note:** This subdirectory is empty when you initially install Artix Data Services. To populate it, you must click the **Getting Started Guide** link in the Artix Data Services Designer workbench to download the relevant material.
`Reference Implementations`	This subdirectory contains the reference implementation data that is required to run Artix Data Services. **Note:** This subdirectory is empty when you initially install Artix Data Services. To populate it, you must click the various **download** links in the **Reference implementation** column of the **Demos** table in the Artix Data Services Designer workbench.
`Standards Libraries`	This subdirectory contains all the schemas for the supported standards libraries. **Note:** This subdirectory is empty when you initially install Artix Data Services. To populate it, you must click the various library name links under **Standards Libraries** in the Artix Data Services Designer workbench.

Note: None of these subdirectories should be removed from the projects folder. With the possible exception of the `artix-ds.cp` file, no files in the projects folder should be modified.

Documentation

See the Artix Data Services Getting Started Guide and User Guide for details of how to use the product. For information on the organization and location of the Artix Data Services documentation library, see the Artix Data Services Documentation Library Overview.

Uninstalling Artix Data Services

Uninstalling on Windows

To uninstall Artix Data Services on Windows:

1. From the Windows **Start** menu, select **Programs|IONA|Artix Data Services|Uninstall Artix Data Services**.
2. In the resulting dialog, click **Yes** when prompted if you want to uninstall.

Uninstalling on Linux

To uninstall Artix Data Services on Linux, run the following script:

```
/ADS_HOME/_uninst/uninstaller.bin
```

Uninstalling on Mac OS X

To uninstall Artix Data Services on Mac OS X, delete “Artix Data Services Designer” under “Applications”.

For More Information and Other Resources

IONA Communities

IONA Communities (http://communities.iona.com/) is a forum for discussion and providing feedback to IONA engineers, product managers, and support staff. It provides an easy way to propose product ideas, raise concerns, post use cases, and discuss future product plans.

Artix TechZone

Artix TechZone (http://www.iona.com/devcenter/artix) is a free online forum where IONA developers, your peers, and other professionals come to share tips on Artix Web services development.

IONA Training Services

IONA Training Services (http://www.iona.com/info/services/ps/) delivers practical and insightful courses that cover technical and product issues as well as standards-based best practices gleaned from real-world projects.

IONA Consulting

IONA Consulting (http://www.iona.com/info/services/consulting/) provide product expertise and consulting solutions that empower end users, system integrators and software vendors with the knowledge to fully leverage IONA products. Together, IONA consultants and products equip you with a single platform for integrating and developing extremely reliable, scalable, and secure e-Business systems.

IONA Security Mailing List

IONA Security Mailing List (security-alert@iona.com). The mailing list provides security updates associated with all IONA products. To receive security updates from IONA, send mail to listserver@iona.com with no subject and the body text `subscribe security-alert` *`youremail`*.

Note: Please do not post queries to this e-mail alias. It has been set up only to notify you of security alerts.

Online Documentation	Online Documentation (http://www.iona.com/support/docs/index.xml) contains the latest documentation on all IONA products. Technical documentation relating to Artix Data Services 3.8 is available at http://www.iona.com/support/docs/artix/data_services/3.8/.
IONA Knowledge Base	IONA Knowledge Base (http://www.iona.com/support/kb/) provides a database of practical advice on specific development issues, contributed by IONA developers, support specialists, and customers.
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