

Progress® Artix® Data Services

Installation Guide

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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 is familiar 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 operating systems and other prerequisites for installing Artix Data Services.
- [“Installing Artix Data Services”](#) describes how to install Artix Data Services in GUI, console and silent mode.
- [“Installed Components”](#) describes the various components of an Artix Data Services installation.
- [“Integrating with Progress DataXtend SI”](#) describes, from an installation point of view, how Artix Data Services integrates with Progress DataXtend SI.
- [“Running Artix Data Services”](#) describes how to start the ADS Designer on all supported platforms.
- [“Uninstalling Artix Data Services”](#) describes how to uninstall Artix Data Services on Windows and Linux.
- [“More Information and Other Resources”](#) provides links to various sources of information and assistance relating to Progress 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](#).

Installing Artix Data Services

Overview

This guide describes how to install Artix Data Services 3.9 on Windows and Linux. Before you install, ensure that you read [“Installation Prerequisites”](#) on [page 8](#).

In this guide

This guide discusses the following topics:

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Integrating with Progress DataXtend SI	page 21
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Installation Prerequisites

Overview

This section describes the supported operating systems and other prerequisites for installing Artix Data Services.

Supported operating systems

See [Table 1](#) and [Table 2](#) for a list of supported operating systems:

Table 1: *Artix Data Services Design Time Operating System Support*

Platform	JDK
Windows XP SP2	Sun JDK 1.6.0_11 (32 bit)
Windows Vista	Sun JDK 1.6.0_11 (32 bit)
Windows Server 2008	Sun JDK 1.6.0_11 (32 bit)
Red Hat Enterprise Linux AS 4.0 (64 bit)	Sun JDK 1.6.0_11 (32 bit)

Table 2: *Artix Data Services Runtime Operating System Support*

Platform	JDK
Windows XP SP2 (32 bit)	Sun JDK 1.5 and 1.6.0_11 (32 bit)
Windows Vista (32 bit)	Sun JDK 1.5 and 1.6.0_11 (32 bit)
Windows Server 2008 (32 bit)	Sun JDK 1.5 and 1.6.0_11 (32 bit)
IBM AIX 5.3	Sun JDK 1.5 and 1.6.0_11 (32 bit)
Red Hat Enterprise Linux 4.0 (64 bit)	Sun JDK 1.5 and 1.6.0_11 (32 bit)
Solaris 9 and 10 (64 bit)	Sun JDK 1.5 and 1.6.0_11 (32 bit)

Supported databases	Artix Data Services 3.9 is supported for use with MySQL 5.0 or higher.
Java JRE and JDK requirements	The Artix Data Services installation set includes an embedded JDK specifically for use by Artix Data Services. There are no external JDK/JRE requirements. See Table 1 on page 8 and Table 2 on page 8 for details of the JDK version that is used.
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	<p>A lot of information relating to the ADS 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.</p> <p>On Windows machines, these values are stored in the registry under <code>HKEY_CURRENT_USER\Software\JavaSoft\Prefs</code> and are prefixed by <code>com\progress</code>.</p> <p>On Linux machines, system preferences are stored under <code>etc/.java</code> and user preferences are stored under <code>~/.java</code>. They are prefixed by <code>com/progress</code>.</p> <p>If you install Artix Data Services on a machine that has had Artix Data Services installed previously, the installer will preserve your Java preferences unless you choose otherwise.</p>
License requirements	<p>The name of the license key file for Artix Data Services takes a format of <code>licensefilename.dat</code>. It is sent to you by Progress Customer Services when you purchase the product. You can specify the license when you install the product or the first time you launch ADS Designer. Once specified, it is copied to 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.</p> <p>WARNING: Tampering with the license file disables the software and any data models that you have created with it.</p>

Installing Artix Data Services

Downloading the installation package

Use the login details that you received from Progress Customer Services to login to the Progress ESD site and download the installer.

License file

You should have received a license file from Progress Customer Service along with the download details.

Linux notes

1. If you have not already set up your Java path, enter the following command:

```
export JAVA_HOME=/x1/jre1.6.0_11
```
 2. Ensure that you have set up the necessary permissions to execute the installer.
-

Installation modes

You can run the Artix Data Services installer in three modes, as described in the following subsections:

Installing in GUI Mode	page 11
Installing in Console Mode	page 13
Installing in Silent Mode	page 14

Installing in GUI Mode

Running the installer

Complete the following steps to install Artix Data Services in GUI mode on all supported platforms:

1. Navigate to the directory into which you saved the installer and run it as follows:

Windows

```
ADS_v39_setup.exe
```

Linux

```
./ADS_v39_setup.bin
```

2. Follow the on-screen instructions and respond to each prompt. Use the information in [Table 3](#) as a guide when selecting installation options.

Table 3: *Artix Data Services Installation Options*

Platform	Installation Option	Default	Notes
All	<p>The Locations screen lets you select the top-level directory for your:</p> <ul style="list-style-type: none"> • Artix Data Services installation. • Project working files. 	<p>Installation location:</p> <p><i>Windows:</i></p> <pre>C:\Program Files\Progress\Artix Data Services</pre> <p><i>Linux:</i></p> <pre>\$HOME/Progress/ArtixDataServices</pre> <p>Store my projects in:</p> <p><i>Windows:</i></p> <pre>C:\Documents and Settings\username\My Documents\My ADS Projects</pre> <p><i>UNIX:</i></p> <pre>\$HOME/MyADSProjects</pre>	<p>You can change the default locations by clicking Choose and browsing to the location that you want to use.</p>

Table 3: *Artix Data Services Installation Options*

Platform	Installation Option	Default	Notes
All	<p>The License File screen allows you to either:</p> <ul style="list-style-type: none"> Click Choose and browse to the location in which you have stored the Artix Data Services license file; or Check the I do not want to enter a license file path now check box and enter the location of the license file the first time you run ADS Designer. 	Select the license file while installing the product.	You must have a valid license file before using Artix Data Services.
Windows only	The Desktop Shortcut screen allows you to choose whether or not you want an ADS Designer shortcut on your desktop.	The Yes, install an “ADS Designer” shortcut on my Desktop checkbox is ticked and a shortcut is created by the installer.	
Windows only	The Install Plugin screen enables you to install an ADS plugin for use with Progress® DataXtend™ Semantic Integrator (SI) 8.4.	The Yes, I want to install the ADS plugin to my DataXtend SI install checkbox is ticked and the ADS plugin and related files are installed.	The Install Plugin screen only appears if you have DataXtend SI 8.4 installed on your machine and the ADS plug-in has not already been installed.
All	The Install Complete screen gives you the option to view the Artix Data Services welcome page. The welcome page contains links to documentation and support information.	The Show Welcome page check box is ticked and the welcome page is displayed in your default browser.	<p>You can launch the welcome page at any time after installation, by:</p> <ol style="list-style-type: none"> Navigating to: <code>ADSInstallDir/welcome</code> Double-clicking the <code>welcome.htm</code> file.

Installing in Console Mode

Overview

Console mode allows text to be output to the console. If, for example, you are installing on Linux and do not want to use X-windows to run the installer, you can run the Artix Data Services installer in console mode.

Steps

To run the Artix Data Services installer in console mode, complete the following steps:

1. Go to the directory into which you saved the installer and run the following command:

Windows

```
ADS_v39_setup.exe -i console
```

Linux

```
./ADS_v39_setup.bin -i console
```

2. Follow the on-screen instructions and respond to option prompts. Use the information in [Table 3 on page 11](#) as a guide when selecting installation options.

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 Data Services 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. Running the Artix Data Services installer once in GUI mode automatically generates the properties file and saves it to the directory in which the installer resides. You can use this properties file to run the installer in silent mode on any other machine on which you want to install Artix Data Services.

Generating an installer.properties file

To generate an `installer.properties` file that contains the response values needed for the silent installation, run the Artix Data Services installer once in GUI mode by completing the instructions outlined in [“Installing in GUI Mode” on page 11](#). The installer automatically creates the `installer.properties` file and saves it to the directory in which the installer resides.

Installing in silent mode

To install Artix Data Services in silent mode, go to the directory into which you saved the installer and run the following command:

Windows

```
ADS_v39_setup.exe -i silent full\path\to\installer.properties
```

Linux

```
./ADS_v39_setup.bin -i silent full/path/to/installer.properties
```

Changing the name and location of the properties file

You can change the name of the properties file and its location. For example, you can use the `-r` command-line option to record the installation settings to a file other than the default `installer.properties` file:

Windows

```
ADS_v39_setup.exe -r full\path\to\file
```

Linux

```
./ADS_v39_setup.bin -r full\path\to\file
```

If you do change the name and location of the properties file, you need to use the `-f` option to point to the new details when running your silent installation. For example, if you change the name of the file to `ADSinstaller.properties`, the following command will install Artix Data Services in silent mode:

Windows

```
ADS_v39_setup.exe -i silent -f  
full\path\to\ADSinstaller.properties
```

Linux

```
./ADS_v39_setup.bin -i silent -f  
full/path/to/ADSinstaller.properties
```

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\Progress\Artix Data Services
```

Linux

```
$HOME/Progress/ArtixDataServices
```

Installation directory structure

Your installation of Artix Data Services includes the sub-directories and files listed in [Table 4](#).

Table 4: *Installation Directory Structure*

Platform	Directory/File	Description
<i>All</i>	/docs	Contains Artix Data Services ANT tasks and Javadoc.
<i>Windows only</i>	/eclipse/plugins	Contains the Artix Data Services plugin that is required for integrating Artix Data Services with Progress DataXtend SI. See “Integrating with Progress DataXtend SI” on page 21 for more detail.
<i>Windows only</i>	/icons	Contains icons that are used by the product UIs.
<i>All</i>	/jdk	Contains JDK information that is required to run Artix Data Services on your machine.
<i>All</i>	/lib	Contains library <code>.jar</code> files required by Artix Data Services.

Table 4: *Installation Directory Structure*

Platform	Directory/File	Description
<i>All</i>	/uninstall	Contains the uninstall executable and supporting files needed to uninstall Artix Data Services.
<i>All</i>	/welcome	Contains the product welcome page.
<i>Windows only</i>	ads-dxsi-config.cmd	This command-line tool can be used to install or uninstall the Progress DataXtend SI plugin. See “Integrating with Progress DataXtend SI” on page 21 for more detail.
<i>All</i>	Artix_Data_Services_InstallLog.log	This log file provides details of the actions that occur during a product install or uninstall.
<i>Linux only</i>	artix-ds-designer.jar and artix-ds-diff.jar	The ADS Designer JAR file and the ADS Diff Tool JAR file.
<i>All</i>	artix-ds.ja	This file is used for specifying runtime memory usage.
<i>All</i>	Windows: artix-ds-designer.exe Linux: artix-ds-designer.sh	This file is used to start ADS Designer.
<i>All</i>	Windows: artix-ds-diff.exe Linux: artix-ds-diff.sh	This file is used to start the Diff Tool.
<i>All</i>	license- <i>filename</i> .dat	This is your product license file.
<i>All</i>	Notices.txt	This file provides legal notices of the various third-party technologies that Artix Data Services incorporates.
<i>All</i>	README	This file provides details about how to start ADS Designer, view an issue tracker and gives a URI to Progress communities.

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 are stored in the following location:

Windows

```
C:\Documents and Settings\username\My Documents\My ADS Projects
```

Linux

```
$HOME/MyADSProjects
```

Projects folder structure

Your installation of Artix Data Services includes the following subdirectories under the specified projects folder:

<code>_ApplicationFiles</code>	This subdirectory contains an <code>artix-ds.cp</code> file, which is used for including files in the classpath.
<code>Examples</code>	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 click the various download links in the Example column of the Demos table in the Artix Data Services Designer workbench.

Getting Started

This subdirectory contains links to a Getting Started guide and a series of video tutorials to help you become familiar with 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

For information on the organization and location of the Artix Data Services documentation library, see the Artix Data Services [Documentation Library Overview](#).

Installed Components

Getting started

See the Artix Data Services [Getting Started Guide](#) and [User Guide](#) for details of how to use the product.

Integrating with Progress DataXtend SI

Overview

On Windows, Artix Data Services includes an *ADS DOD Importer* plugin that enables DataXtend SI to import and use Artix Data Services `.dod` files. If you install Artix Data Services on a machine that already has DataXtend SI installed on it, the Artix Data Services installer gives you the option to install the plugin. If you select to install the plugin, the installer takes care of installing and configuring the necessary files. On the other hand, if you want to integrate the products at a later date, you can use the `ads-dxsi-config.cmd` command-line tool to do it for you.

`ads-dxsi-config.cmd` use cases

The `ads-dxsi-config.cmd` command-line tool configures the ADS DOD Importer plugin for use with DataXtend SI and installs a link file into the DataXtend SI `eclipse/links` directory. It can be used instead of the Artix Data Services installer to configure the integration of Artix Data Services and DataXtend SI.

`ads-dxsi-config.cmd` use cases

You should use the `ads-dxsi-config.cmd` command-line tool to configure the integration of Artix Data Services and DataXtend SI in the following cases:

- You install Artix Data Services on a machine that already has DataXtend SI installed on it, but choose not to install the plugin while running the Artix Data Services installer.
- You install Artix Data Services on a machine that already has DataXtend SI installed on it, choose to install the plugin, but do not specify a license while running the Artix Data Services installer.
- You install DataXtend SI on a machine that already has Artix Data Services installed on it.

Arguments

The following arguments can be used with the `ads-dxsi-config.cmd` command-line tool:

<code>-adshome</code>	<p>Specifies the path to the Artix Data Services home directory.</p> <p>This is optional. If the <code>ADS_HOME</code> environment variable is set, then this argument does not need to be specified. The Artix Data Services installer sets the <code>ADS_HOME</code> environment variable.</p>
<code>-eclipse</code>	<p>Specifies the path to the DataXtend SI <code>eclipse</code> directory.</p> <p>This is required when using the <code>-install</code> and <code>-uninstall</code> arguments. It is not required when using the <code>-licenseCopy</code> argument.</p>
<code>-install</code>	<p>Installs the following:</p> <ul style="list-style-type: none">• The <code>com.progress.dataxtendsi.ads.link</code> file into the DataXtend SI <code>eclipse/links</code> folder.• A copy of the Artix Data Services license file into the ADS DOD Importer plugin <code>lib</code> directory. <p>This is required.</p>
<code>-uninstall</code>	<p>Uninstalls the link file.</p> <p>This is optional.</p>
<code>-licenseCopy</code>	<p>Copies the Artix Data Services license file into the ADS DOD Importer plugin <code>lib</code> directory.</p> <p>This is optional. It is only necessary if, when installing Artix Data Services, you do not specify a license file but do specify that you want to install the ADS DOD Importer plugin.</p>

Example of using

For example, to configure the ADS DOD Importer plugin for use with DataXtend SI, where the `ADS_HOME` environment variable is set and you already specified a license file, run the following command:

```
ads-dxsi-config.cmd -eclipse C:\Progress\DXSI_8.4.0\eclipse
-install
```

Running Artix Data Services

Steps

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

Windows

- From the Windows Start menu, select **(All) Programs | Progress | Artix Data Services | ADS Designer**
- 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`.

Linux

Navigate to the Artix Data Services installation directory and run the following command:

```
./artix-ds-designer.sh
```

Uninstalling Artix Data Services

Uninstalling on Windows

To uninstall Artix Data Services on Windows:

1. Launch the Windows **Add or Remove Programs** control panel applet.
2. Select **Artix Data Services** from the list of programs.
3. Click **Change/Remove**.
4. In the Uninstall Artix Data Services dialog, click **Uninstall**.
5. When the uninstall is complete, click **Done**.

Uninstalling on Linux

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

```
ADSInstallDir/uninstall/uninstall_ADS.bin
```

More Information and Other Resources

Online Documentation

Artix Data Services 3.9 documentation is available online at:
http://www.iona.com/support/docs/artix/data_services/3.9/

Progress Communities

Progress Communities (<http://communities.progress.com/>) is a forum for discussion and providing feedback to Progress 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.

Knowledge Base

The Knowledge Base (<http://progress.atgnow.com/esprogress/Group.jsp?bgroup=realtime>) provides practical advice on specific development issues, contributed by Progress developers, support specialists, and customers.

Technical Support

Technical support (<http://web.progress.com/artix-data-services/artix-support.html>) provides worldwide, round-the-clock technical support and maintenance services to ensure your success with Progress products.

Services and Training

Progress Professional Services' (<http://web.progress.com/consulting/index.html>) mission is to ensure your success, and you will get targeted support to meet your unique needs.

Contact us

You can contact us at:
<http://web.progress.com/about/ads-contact.html>

More Information and Other Resources