Artix™

Artix Orchestration Release Notes

Version 4.0, June 2006

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Artix 4.0 Orchestration Release Notes

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About This Release

Artix 4.0 Orchestration is an add-on kit that must be installed into an existing Artix 4.0 Windows or Linux installation. The installation requirements are described in the Artix Orchestration Installation Guide.

Artix Orchestration adds support for designing an orchestrated set of Web services using the standard Business Process Execution Language (BPEL), and for integrating your orchestrated set of services into your Artix environment.

Artix 4.0 Orchestration adds the following features to Artix 4.0:

- BPEL Designer
- Artix Orchestration perspectives for Eclipse
- Artix Orchestration server
- Web-based Admin Console for the orchestration server
- Persistent storage option for the orchestration server
- Demonstration code
- Documentation embedded as Eclipse Help
- Artix Orchestration tutorial

BPEL Designer

The Artix Orchestration BPEL Designer is an Eclipse-based application that helps you design BPEL code with a GUI design tool. BPEL Designer is run alongside Artix Designer in the Artix-supplied version of Eclipse.

To learn to use BPEL Designer, start Artix Designer and go through the tutorial as described below. Start Artix Designer by running:

ArtixInstallationDir\artix*version*\bin\start_eclipse

For Windows, you can also start from the Windows **Start** menu; select **(All) Programs | IONA | Artix 4.0 | Artix 4.0 Orchestration | Artix Orchestration Designer**.

Artix Orchestration Eclipse perspectives

Artix Orchestration adds the **Artix Orchestration** and **Artix Orchestration Debug** perspectives to Eclipse.

Artix Orchestration Server

The Artix Orchestration BPEL Server engine provides a host for deploying BPEL processes. Start the orchestration server from the command line:

ArtixInstallationDir\artix*version*\bin\start_bpel

For Windows, the command prompt window in which you invoke `start_bpel` must remain active. You can minimize the window, but if you close it, you also inadvertently stop the orchestration server.

To stop the orchestration server correctly, run:

ArtixInstallationDir\artix*version*\bin\stop_bpel

Admin Console for the orchestration server

While the orchestration server is running, you can administer and monitor its progress with the web-based Admin Console. Access the Admin Console in any browser at the location http://localhost:8080/BpelAdmin.

The use of the Admin Console's features is documented in the embedded help system. Click the **Help** link at the bottom of the left column to open the Admin Console documentation.

Persistent storage option

You can run the Artix Orchestration database configuration tool as part of the initial installation, or anytime thereafter, as described in the Artix Orchestration Installation Guide.

The configuration tool sets up a database in a supported database management system, and configures the orchestration server to store its BPEL process deployment information in that database. This allows your BPEL processes to be automatically redeployed and restarted when the orchestration server restarts.

Demonstration code

A demonstration of Artix Orchestration is installed in:

ArtixInstallationDir\artix*version*\demos\bpel\loanapproval

Follow the steps in the `README.txt` file in that directory.

Artix Orchestration documentation

The primary documentation for Artix Orchestration is embedded in the Eclipse Help system. To read the documentation:

1. Start Artix Designer as described above.
2. From the **Help** menu, select **Help Contents**.
3. Select **Artix Orchestration Designer** in the **Contents** pane.

Artix Orchestration tutorial

The help system includes a thorough tutorial that leads you through the steps of learning to use Artix Orchestration's features.

To start the tutorial:

1. Open the **Artix Orchestration Designer** help system as described immediately above.
2. Select **Artix Orchestration tutorial**.
3. Go through the parts of the tutorial in order.

Known Issues

The following are known issues for Artix 4.0 Orchestration:

- Potential Port Conflicts
- Ant Deploy Warnings in Demo
- Adding Partner Link Also Adds Import
- BPEL Simulator/Debugger Leaves Terminate Button Active
- Deployment Log Not Updated
- Installer Opens Command Prompt
- Silent and Console Installations
- Uninstallation Leaves Directory
- Uninstallation Removes Icon
- Unknown Help Content

Potential Port Conflicts

The Artix Orchestration server runs an instance of the Apache Tomcat server on port 8080 by default. The Tomcat servlet engine hosts the Admin Console. The orchestration server also runs an instance of the Artix WSDL Publish server on port 8081.

If you have other services running on these ports, you can either disable the conflicting services, or change the orchestration server's default ports as described in the Artix Orchestration Installation Guide.

Ant Deploy Warnings in Demo

The following errors are output when running `ant deploy` as part of the command line portion of the loanapproval demo:

```
bpel.deploy:
     [echo] Deploying Business Process Archive.
[deploybpr] log4j:WARN No appenders could be found for logger
   (org.apache.axis.i18n.ProjectResourceBundle).
[deploybpr] log4j:WARN Please initialize the log4j system properly.
```

Some workarounds are available to suppress these messages:

- Define an ANT_OPTS environment variable like this example:

  ```
  ANT_OPTS="-Dlog4j.configuration=file:/%IT_ARTIX_ETC_DIR%\LogConfi
     g.properties"
  ```

- Provide a `log4j.properties` file in the `%IT_ARTIX_ETC_DIR%` directory so that the log4j messages are not output to the console.

Adding Partner Link Also Adds Import

When adding a partner link type to an existing WSDL file, BPEL Designer adds an import, even if there is already an appropriate import in the file.

BPEL Simulator/Debugger Leaves Terminate Button Active

When using the BPEL simulator or debugger, the red Terminate button in the Console toolbar remains enabled after the BPEL process under test terminates. However, clicking the Terminate button has no effect. The expected behavior is a disabled Terminate button after the simulation or debugging session runs to completion.

Similarly, after completion, the Remove Terminated Processes button should clear terminated BPEL processes from the Console window, but does not.

Deployment Log Not Updated

After undeploying a BPEL process, the Deployment Log in the orchestration server's Admin Console is not updated with the undeployment information.

Installer Opens Command Prompt

If you let the Artix Orchestration installer run the database configuration tool to configure the persistent storage option, under Windows, the configuration tool opens a command prompt window while the tool is running.

Silent and Console Installations

The Artix Orchestration installer is available in interactive GUI form only. Console and silent installations are not supported.

Likewise, the Artix Orchestration database configuration tool is only available in interactive GUI form.

Uninstallation Leaves Directory

You can uninstall Artix Orchestration independently of Artix as described in the Artix Orchestration Installation Guide.

Uninstalling leaves the following directory in place. Remove it manually before reinstalling Artix Orchestration.

```
ArtixInstallationDir\artix\version\etc\bpel
```

Uninstallation Removes Icon

Uninstalling Artix Orchestration inadvertently removes the icon file (`start_eclipse.ico`) used by the Artix Designer desktop and Start menu icons.

Unknown Help Content

In Artix Designer, if you invoke **Help | Tips and Tricks**, an Artix Orchestration Designer item displays in the resulting menu. This menu item is inadvertent and leads to a “topic not available” help page.

Reporting Problems

Contact customer support at http://www.iona.com/support/contact/.

Other Resources

If you need further help, you can take advantage of the following resources:

- 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. Visit the Artix TechZone today to start making the most of your Artix development experience.
- IONA University (`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 Professional Services (`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 (`security-alert@iona.com`): The mailing list provides security updates associated with all IONA products. To receive security updates from IONA, send e-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 (`http://www.iona.com/support/docs/index.xml`): The latest updates to the Artix documentation are posted on-line.
- Knowledge base articles (`http://www.iona.com/support/index.xml`): A database that contains practical advice on specific development issues, contributed by IONA developers, support specialists, and customers.

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