



**Updated Visual Editor:** The JSP/JSF Visual editor has been reimplemented with the JavaFX WebView component. Now offers improved rendering accuracy (including JavaScript execution), support for the new ADF Faces and DVT components, and many UI improvements such as a new toolbar and redesigned context menus.

#### Web Services Development

**REST/WADL Support:** REST Support in Web Services design time: Service, Client generation from WADL, WADL structure view in HTTP Analyzer

**OWSM Policy:** Attach OWSM policies to web service clients using annotations.

**SOAP over JMS:** Using SOAP over JMS transport to enable web services and clients to communicate using JMS destinations instead of HTTP connections.

**JUnit Testing:** Generate JUnit tests for web service.

**Configurable JAXB provider:** Use either EclipseLink MOXY or Glassfish RI JAXB.

#### Application Server Integration

**Shared Libraries:** Ability to package and deploy shared libraries to WebLogic Server.

**Oracle Public Cloud Ready:** Develop applications and deploy directly to Oracle Public Cloud and the Java Cloud Service. (Note, at the time of publishing this document, Java Cloud Service does not yet support ADF 12.1.2)

**Debugging Context Switch:** Debug a different application on Integrated WebLogic Server without having to restart the server.

**Hide Verbose Messages:** Optionally turn off the verbose messages that appear when starting the Integrated WebLogic Server.

#### UML/Modeling

**UML 2.4:** UML Modeling tools updated to UML 2.4

**Partitions/Swimlanes:** Activity diagrams now support partitions and swimlanes

**Stereotypes:** Ability to create stereotyped elements from the New Gallery

**Profiles:** Profile diagrams and diagram-based user definition of UML profiles.

**Code Insight:** Code Insight and completion from within diagrams

**Model libraries:** Model libraries created and managed in projects similar to Java libraries.

#### Database Development

**Oracle Public Cloud:** Connect to, browse, and upload database objects to your Database Cloud Service in Oracle Public Cloud.

**Improved Editors:** Edit online database objects by way of the new Overview editors which affords many advantages over the modal dialog editors used in previous versions.

**New database versions:** Updates to support new database versions including Oracle Database 12.1, SQLite, and MySQL 5.5

**Offline Database object improvements:** Improved editors, history viewer support, refactoring

**Improved Template support:** Improved templates, include tablespace templates.

**Views for non-Oracle database:** New support for Views using non-Oracle database.

**Database Links:** General improvements for working with objects (such as Views) which utilize database links

#### ADF View (ADF Faces, DVT)

**JSF 2.0 Support:** Updates the supported Java Server Faces version to the 2.0 spec which adds the following features.

Facelets

Ajax

Get

Composite components

Annotated managed beans

New scopes

Conditional navigation

Add EL directly in page content

EL methods with arguments

System events

**New Component: Treemap** is a new visualization used to display a hierarchy using color and size of rectangular nodes to convey information.

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