

# Oracle® Fusion Middleware

What's New in Oracle WebLogic Server

11g Release 1 (10.3.5)

E13852-07

April 2011

---

Welcome to Oracle WebLogic Server. The following sections describe new and changed functionality in this WebLogic Server release. For a list of bugs that are fixed in this release, refer to the following file in your WebLogic Server installation directory:

*WL\_HOME*/bugsfixed/bugsfixed.htm

The list of fixed bugs is also available on My Oracle Support at <https://support.oracle.com/>. Enter the following document ID in the **Knowledge Base Search** field:

1302753.1

---

---

**Note:** Oracle Fusion Middleware 11g contains Oracle WebLogic Server 11g. The current version number of Oracle WebLogic Server is 10.3.5.

---

---

- [Section 1, "Enterprise Java Beans \(EJBs\)"](#)
- [Section 2, "Deprecated Functionality \(WebLogic Server 11g Release 1\)"](#)
- [Section 3, "Standards Support"](#)
- [Section 4, "Supported Configurations"](#)
- [Section 5, "Documentation Accessibility"](#)

## 1 Enterprise Java Beans (EJBs)

This section describes the new EJB features for WebLogic Server 10.3.5.

### 1.1 Support for JPA 2.0 Providers

An available patch for WebLogic Server 10.3.5 enables support for TopLink, a Java Persistence Architecture (JPA) 2.0 provider. JPA 2.0 includes improvements and enhancements to domain modeling, object/relational mapping, EntityManager and Query interfaces, and the Java Persistence Query Language (JPQL). It includes a new API for criteria queries, a metamodel API, and support for validation. For the JPA 2.0 Specification, see "JSR-000317 Java Persistence 2.0 (Final Release)" at <http://jcp.org/aboutJava/communityprocess/final/jsr317/index.html>.

To enable JPA 2.0 support, you must download and install a WebLogic Server patch. JPA 2.0 is not supported with the openJPA/Kodo that is shipped with WebLogic Server 10.3.4.

- Log in to My Oracle Support and download patch 9923849.
- If using Smart Update, download and apply public patch QWG8.

---

---

**Note:** Support for JPA 2.0 in WebLogic Server is provided as a patch because JPA 2.0 is part of Java Platform, Enterprise Edition (Java EE) 6. Therefore, enabling JPA 2.0 support in the current release results in WebLogic Server not meeting all Java EE 5 compatibility requirements. To maintain Java EE 5 compatibility in the current release, the files required for the support are not enabled by default, although they are included in a standard WebLogic Server installation.

---

---

For more information, see "Using JPA 2.0 With TopLink in WebLogic Server" in *Programming WebLogic Enterprise JavaBeans, Version 3.0 for Oracle WebLogic Server*.

## 2 Deprecated Functionality (WebLogic Server 11g Release 1)

Information about deprecated functionality for WebLogic Server 11g Release 1 can be found on My Oracle Support at <https://support.oracle.com/>. Enter the following document ID in the **Search Knowledge Base** field:

888028.1

## 3 Standards Support

This release of WebLogic Server supports the following standards and versions.

### 3.1 Java Standards

[Table 1](#) lists currently supported Java standards.

**Table 1** Java Standards Support

Standard	Version
JAAS	1.0 Full
Java API for XML-Based Web Services (JAX-WS)	2.1, 2.0
Java Authorization Contract for Containers (JACC)	1.1
Java EE	5.0
Java EE Application Deployment	1.2
Java EE Connector Architecture	1.5, 1.0
Java EE EJB	3.0, 2.1, 2.0, and 1.1
Java EE Enterprise Web Services	1.2, 1.1
Java EE JDBC	4.0, 3.0
Java EE JMS	1.1, 1.0.2b
Java EE JNDI	1.2

**Table 1 (Cont.) Java Standards Support**

<b>Standard</b>	<b>Version</b>
Java EE JSF	2.0, 1.2, 1.1
Java EE JSP	2.1, 2.0, 1.2, and 1.1
Java EE Servlet	2.5, 2.4, 2.3, and 2.2
Java RMI	1.0
JavaMail	1.4
JAX-B	2.1, 2.0
JAX-P	1.2, 1.1
JAX-R	1.0
JAX-RPC	1.1, 1.0 (deprecated)
JCE	1.4
JDKs	6.0 (aka 1.6), 5.0 (aka 1.5, clients only)
JMX	1.2, 1.0
JPA	1.0, 2.0  For information on JPA 2.0 support, see <a href="#">Section 1.1, "Support for JPA 2.0 Providers."</a>
JSR 77: Java EE Management	1.1
JSTL	1.2
OTS/JTA	1.2 and 1.1
RMI/IIOP	1.0
SOAP Attachments for Java (SAAJ)	1.3, 1.2
Streaming API for XML (StAX)	1.0
Web Services Metadata for the Java Platform	2.0, 1.1

### 3.2 Web Services Standards

For the current list of standards supported for WebLogic Web services, see "Features and Standards Supported by WebLogic Web Services" in *Introducing WebLogic Web Services for Oracle WebLogic Server*.

### 3.3 Other Standards

[Table 2](#) lists other standards that are supported in this release of WebLogic Server.

**Table 2 Other Standards**

<b>Standard</b>	<b>Version</b>
SSL	v3
X.509	v3
LDAP	v3
TLS	v1
HTTP	1.1

**Table 2 (Cont.) Other Standards**

Standard	Version
SNMP	SNMPv1, SNMPv2, SNMPv3
xTensible Access Control Markup Language (XACML)	2.0
Partial implementation of Core and Hierarchical Role Based Access Control (RABC) Profile of XACML	2.0
Internet Protocol (IP)	Versions: <ul style="list-style-type: none"><li>▪ v6</li><li>▪ v4</li></ul>

For more information about IPv6 support for all Fusion Middleware products, refer to the IPv6 Certification worksheet in the *Oracle Fusion Middleware 11g Release 1 (11.1.1.x) Certification Matrix* at

[http://www.oracle.com/technology/software/products/ias/files/oracle%20fusion%20middleware%2011gR1%20\(11.1.1.x\)%20certification%20matrix.xls](http://www.oracle.com/technology/software/products/ias/files/oracle%20fusion%20middleware%2011gR1%20(11.1.1.x)%20certification%20matrix.xls).

## 4 Supported Configurations

For the most current information on supported configurations, refer to the Oracle Fusion Middleware Supported Configurations Central Hub at

[http://www.oracle.com/technology/software/products/ias/files/fusion\\_certification.html](http://www.oracle.com/technology/software/products/ias/files/fusion_certification.html).

## 5 Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible to all users, including users that are disabled. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Accessibility standards will continue to evolve over time, and Oracle is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. For more information, visit the Oracle Accessibility Program Web site at <http://www.oracle.com/accessibility/>.

### Accessibility of Code Examples in Documentation

Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

### Accessibility of Links to External Web Sites in Documentation

This documentation may contain links to Web sites of other companies or organizations that Oracle does not own or control. Oracle neither evaluates nor makes any representations regarding the accessibility of these Web sites.

## Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/support/contact.html> or visit <http://www.oracle.com/accessibility/support.html> if you are hearing impaired.

---

Oracle Fusion Middleware What's New in Oracle WebLogic Server, 11g Release 1 (10.3.5)  
E13852-07

Copyright © 2007, 2011, Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this software or related documentation is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, the following notice is applicable:

U.S. GOVERNMENT RIGHTS Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, duplication, disclosure, modification, and adaptation shall be subject to the restrictions and license terms set forth in the applicable Government contract, and, to the extent applicable by the terms of the Government contract, the additional rights set forth in FAR 52.227-19, Commercial Computer Software License (December 2007). Oracle USA, Inc., 500 Oracle Parkway, Redwood City, CA 94065.

This software is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications which may create a risk of personal injury. If you use this software in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure the safe use of this software. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software in dangerous applications.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

This software and documentation may provide access to or information on content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

