



# **BEA WebLogic Adapter for RDBMS**

## **Release Notes**

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# BEA WebLogic Adapter for RDBMS Release Notes

## **BEA WebLogic Adapter for RDBMS Release 8.1.0** **Date: October 2003**

This document includes the following topics:

- [About This Release of the BEA WebLogic Adapter for RDBMS](#)
- [Supported Platforms](#)
- [Software Requirements](#)
- [Determining the Adapter Version](#)
- [Miscellaneous Issues](#)
- [Known Limitations](#)
- [Contacting BEA Customer Support](#)

# About This Release of the BEA WebLogic Adapter for RDBMS

The BEA WebLogic Adapter for RDBMS connects to your RDBMS so that you can easily use your RDBMS data and functions within your business processes. The adapter provides scalable, reliable, and secure access to your RDBMS.

The adapter supports the following services and events:

- Services
  - Standard SQL
  - Parametrized SQL
  - Stored Procedure
  - Arbitrary SQL
- Events
  - Trigger
  - Select By Timestamp
  - Select Then Delete

## Supported Platforms

The Adapter for RDBMS currently supports the following platforms:

- Sun Solaris 8 (with Sun recommended patches)
- Sun Solaris 9 (with Sun recommended patches)
- Microsoft Windows 2000 Professional with Service Pack 2 and higher
- Microsoft Windows 2000 Server with Service Pack 2 and higher
- Microsoft Windows 2000 Advanced Server with Service Pack 2 and higher
- Hewlett-Packard HP-UX 11.0
- Hewlett-Packard HP-UX 11i

We are working to certify this adapter on additional platforms. Up-to-date information on supported platforms is available at the following URL:

<http://edocs.bea.com/wladapters/docs81/support/index.html>

## Software Requirements

Before you install the BEA WebLogic Adapter for RDBMS, ensure that you have the following software installed:

- BEA WebLogic Platform 8.1

The software can be downloaded from the BEA Web site at the following URL:

<http://commerce.bea.com/downloads/products.jsp>

The information required to install WebLogic Platform 8.1 can be found at the following URL:

<http://edocs.bea.com/platform/docs81/install/index.html>

**Note:** The WebLogic Server and WebLogic Integration components *must* be installed.

- Java Runtime Environment (JRE) 1.4.1 or higher
- Internet Explorer 6.0 or higher

The following are the databases that the Adapter for RDBMS supports as the target database:

- Oracle 8.1.7
- Oracle 9i Release 1
- Oracle 9i Release 2
- MS SQL Server 2000 SP2
- DB2 UDB 7.2

**Note:** Be sure to use the database that is applicable to your platform and environment.

For details of the drivers with which the Adapter for RDBMS has been tested, see [Appendix A, “Supported Drivers.”](#)

## Determining the Adapter Version

To allow you to easily determine the version of the BEA WebLogic Adapter for RDBMS, identifying information has been added to the `Manifest.mf` file. This file is included in the EAR file.

For example, the `Manifest.mf` file for BEA WebLogic Adapter for RDBMS 8.1.0 contains the following:

Manifest-Version: 1.0  
Created-By: Apache Ant 1.5  
Built-By: BEA Systems, Inc  
Label: BEAVIENNA.0002  
Implementation-Title: BEA RDBMS Adapter 2003.07.18.123734 PM  
Implementation-Version: 8.1.0.0002  
Implementation-Vendor: BEA Systems

The Implementation-Version is provided in the following format: w.x.y.zzzz:

- w.x represents the major and minor release number (in this case, 8.1)
- y represents the service pack number (in this case, 0)
- zzzz represents the build number of the release (in this case, 0002)

If you obtain a patch subsequent to a release, identifying information specific to the patch is included in the `Manifest.mf` file.

## Miscellaneous Issues

When using the BEA WebLogic Adapter for RDBMS, you might encounter some of the following issues, which can make the adapter or one of its components inoperable. The following table describes these issues and provides a workaround, where possible.

If an entry includes a CR (Change Request) number, a possible solution may exist in a future BEA WebLogic Adapter for RDBMS release where BEA will provide vendor-specific code to fix the problem. Refer to this number to conveniently track the solution as the problems are resolved.

Please contact BEA Customer Support for assistance in tracking the unresolved problems identified with a CR number. For contact information, see the section [“Contacting BEA Customer Support” on page 1-9](#).

**Table 1. Miscellaneous Issues**

<b>1 Problem</b>	In I18N Tests with SJIS encoding, it is found that if you use doublebyte data in descriptors (table and column names), the application view deployment fails.
<b>Platform</b>	Windows
<b>Workaround</b>	None



**Table 1. Miscellaneous Issues (Continued)**

<b>2 Problem</b>	You get an exception while deploying an application view with a DB2 intrusive event for LocalTx Repository Oracle 9i Non-XA. However, you are able to deploy the application view and there is no loss of business data.
<b>Platform</b>	Windows, Solaris
<b>Workaround</b>	None

## Known Limitations

The following table describes limitations in the current release of the BEA WebLogic Adapter for RDBMS. Whenever available, a recommended workaround is provided.

Where applicable, entries include a CR (Change Request) number or Case number. Please refer to this number when contacting BEA Customer Support for assistance in tracking the problem. For contact information, see [“Contacting BEA Customer Support” on page 1-9](#).

**Table 2. Known Limitations**

<b>1 Problem CR108263</b>	The DB2 JDBC Driver (not 2.1-compliant) for Solaris does not have implementation for <code>CallableStatement.getBigDecimal ()</code> method.  For DB2 UDB, the Stored Procedure service type does not support <code>decimal</code> and <code>numeric</code> data types.
<b>Platform</b>	Solaris
<b>Workaround</b>	None
<b>2 Problem</b>	For Oracle, the Standard SQL and Arbitrary SQL service types do not support DDL statements.
<b>Platform</b>	All
<b>Workaround</b>	None

**Table 2. Known Limitations (Continued)**

<b>3</b>	<b>Problem</b>	In a clustered environment, events must be targeted at only one node (managed server). Otherwise, you may get a warning while deploying the EAR file in a clustered environment.
	<b>Platform</b>	All
	<b>Workaround</b>	The event generator must be pinned (targeted) to only one managed server in the clustered environment. You do this by editing the event connection Event Generator Target field in the WebLogic Integration Administration console under Application Integration. The value must be the valid name given to the managed server. For more information about the WebLogic Integration Administration console, see Managing WebLogic Integration Solutions at the following URL:  <a href="http://edocs.bea.com/wli/docs81/manage/index.html">http://edocs.bea.com/wli/docs81/manage/index.html</a>
<b>4</b>	<b>Problem</b>	Auto-suspend and resume have not been implemented for the Adapter for RDBMS.
	<b>Platform</b>	All
	<b>Workaround</b>	None
<b>5</b>	<b>Problem CR105737</b>	The Stored Procedure service type does not support the BLOB and CLOB data types due to limitations in the driver implementation (which are proprietary).
	<b>Platform</b>	All
	<b>Workaround</b>	None
<b>6</b>	<b>Problem CR105740</b>	While using the Oracle Thin driver, when you invoke a stored procedure with OUT parameters and RETURN values of the type CHAR, extra space characters are padded at the end of the value.  This an Oracle Thin driver related issue.
	<b>Platform</b>	All
	<b>Workaround</b>	None

**Table 2. Known Limitations (Continued)**

<b>7</b>	<b>Problem CR105741</b>	Only stored procedures returning a single REF CURSOR can be executed through the adapter. Stored procedures returning multiple REF CURSOR data type are not supported due to limitations in the Oracle Thin driver.
	<b>Platform</b>	All
	<b>Workaround</b>	None
<b>8</b>	<b>Problem CR105743</b>	<p>The Oracle Thin Driver 9.2.0 does not behave as per the JDBC standards. A parametrized query with a field of type CHAR expects the value to be appended with a number of spaces. This should be equivalent to the maximum length for the field, minus the length of the value itself.</p> <p>For example, if the field CHAR_FIELD is of the length CHAR (10), and the value provided in the following parameterized SQL (SELECT * FROM TABLE WHERE CHAR_FIELD=?) is "VALUE", it has to be appended with 5 space characters ("VALUE ") for the driver to select the records of interest.</p> <p>However, the same works correctly with SQLServer and DB2 drivers.</p>
	<b>Platform</b>	All
	<b>Workaround</b>	None
<b>9</b>	<b>Problem CR106128 CR106279</b>	<p>If you use a Normal/XA connection to execute services with two different transaction isolation levels, you get the following exception:</p> <pre>java.sql.SQLException: ORA-01453: SET TRANSACTION must be first statement of transaction.</pre> <p>This is a known problem in Oracle Thin Driver 9.2.0 (shipped with WebLogic).</p>
	<b>Platform</b>	All
	<b>Workaround</b>	<p>Services falling under the scope of a transaction (within the same resource manager) should have the same transaction isolation level.</p> <p>For more information, see the following URL:</p> <p><a href="http://e-docs.bea.com/wls/docs81/jta/thirdpartytx.html">http://e-docs.bea.com/wls/docs81/jta/thirdpartytx.html</a></p>

**Table 2. Known Limitations (Continued)**

<b>10</b>	<b>Problem</b> <b>CR107186</b>	While using Oracle Thin Driver 9.2.0, the Arbitrary SQL service type does not accept ';' (semi-colon) as part of the SQL statement. It gives an error at run time.
	<b>Platform</b>	All
	<b>Workaround</b>	Avoid using ";" at the end of the SQL statement.
<b>11</b>	<b>Problem</b> <b>CR105742</b> <b>CR105744</b> <b>CR105745</b> <b>CR105746</b> <b>CR105747</b> <b>CR105748</b>	<p>You will not be able to create Standard SQL or Parametrized SQL services for SQL statements of the following types:</p> <ul style="list-style-type: none"><li>• Sub-query For example: <code>SELECT * FROM EMP WHERE EMP_ID IN (SELECT EMP_ID FROM BONUS WHERE SAL&gt;5000)</code></li><li>• Derived columns in the SELECT clause For example: <code>SELECT SAL*100 FROM BONUS</code></li><li>• BETWEEN keyword in the SELECT clause For example: <code>SELECT SAL FROM BONUS WHERE SAL NOT BETWEEN 7000 AND 8000</code></li><li>• Functions in the SELECT clause For example: <code>SELECT AVG(SAL) FROM BONUS</code></li><li>• Inner join using (+) keyword For example: <code>SELECT A.Varchar1, B.Varchar1 FROM BASE A, BASE B WHERE A.Integer1(+) = B.Integer1</code></li></ul> <p>You will get the following exception:</p> <pre>java.lang.reflect.InvocationTargetException:com.met amata.parse.ParseException.</pre> <p>This is due to the limitations of the SQL Parser implementation used for these service types.</p>
	<b>Platform</b>	All
	<b>Workaround</b>	Use the Arbitrary SQL service type to execute any SQL statement.

## Contacting BEA Customer Support

If you have any questions about this release of the BEA WebLogic Adapter for RDBMS, or if you have problems installing and running the adapter, contact BEA Customer Support through BEA eSupport at <http://support.bea.com>. You can also contact Customer Support by using the contact information provided on the Customer Support Card, which is included in the product package.

When contacting Customer Support, be prepared to provide the following information:

- Your name, e-mail address, phone number, and fax number
- Your company name and company address
- Your machine type and authorization codes
- The name and version of the adapter you are using
- The version of WebLogic Integration you are using
- A description of the problem and the content of pertinent error messages



# Supported Drivers

This section lists the drivers that the BEA WebLogic Adapter for RDBMS supports on the following operating systems:

- Windows 2000 Professional
- Sun Solaris 8 and 9
- HP-UX 11i

It also lists the driver class names and JDBC URLs corresponding to the drivers.

**Note:** The BEA WebLogic Adapter for RDBMS should be used in conjunction with a JDBC 2.1-compliant driver.

## Oracle Thin Driver

You can download the Oracle9i 9.2.0.3 Thin Driver file, `classes12.zip`, from the following URL:

[http://download.oracle.com/otn/utilities\\_drivers/jdbc/9203/classes12.zip](http://download.oracle.com/otn/utilities_drivers/jdbc/9203/classes12.zip)

**Table A-1 Driver Class Names and JDBC URLs for Oracle Thin Driver**

<b>For Normal Connection</b>	Driver Class Name	<code>oracle.jdbc.driver.OracleDriver</code>
	JDBC URL	<code>jdbc:oracle:thin:@hostname:port:schema_name</code>
	Example	<code>jdbc:oracle:thin:@172.19.139.58:1521:UAT02</code>

**Table A-1 Driver Class Names and JDBC URLs for Oracle Thin Driver (Continued)**

<b>For XA Connection</b>	Driver Class Name	<code>oracle.jdbc.xa.client.OracleXADataSource</code>
	JDBC URL	<code>jdbc:oracle:thin:@hostname:port:schema_name</code>
	Example	<code>jdbc:oracle:thin:@172.19.139.58:1521:UAT02</code>

## MS SQL Server 2000 JDBC Driver

You can download the MS SQL Server 2000 JDBC Driver files `msutil.jar`, `msbase.jar`, and `mssqlserver.jar` from the following URL:

<http://msdn.microsoft.com/library/default.asp?url=/downloads/list/sqlserver.asp>

**Table A-2 Driver Class Names and JDBC URLs for MS SQL Server 2000 JDBC Driver**

<b>For Normal Connection</b>	Driver Class Name	<code>com.microsoft.jdbc.sqlserver.SQLServerDriver</code>
	JDBC URL	<code>jdbc:microsoft:sqlserver://hostname:port; SelectMethod=Cursor;DatabaseName=?</code>
	Example	<code>jdbc:microsoft:sqlserver://172.19.138.24:1433; SelectMethod=Cursor;DatabaseName=AdapterTesting</code>
<b>For XA Connection</b>	Driver Class Name	<code>com.microsoft.jdbcx.sqlserver.SQLServerDataSource</code>
	JDBC URL	<code>jdbc:microsoft:sqlserver://hostname:port; SelectMethod=?;DatabaseName=?;ServerName=?</code>
	Example	<code>jdbc:microsoft:sqlserver://172.19.138.24:1433; SelectMethod=cursor;DatabaseName=AdapterTesting; ServerName=itpl-025019</code>



## DB2 JDBC Driver (JDBC 2.0 Compliant)

The DB2 JDBC Driver file, `db2java.zip`, is available with the database instance.

**Table A-3 Driver Class Names and JDBC URLs for DB2 JDBC Driver (JDBC 2.0 Compliant)**

<b>For Normal Connection</b>	Driver Class Name	<code>COM.ibm.db2.jdbc.app.DB2Driver</code>
	JDBC URL	<code>jdbc:db2:DatabaseName</code>
	Example	<code>jdbc:db2:DWCTRLDB</code>
<b>For XA Connection</b>	Driver Class Name	<code>COM.ibm.db2.jdbc.DB2XADataSource</code>
	JDBC URL	<code>jdbc:db2;DatabaseName=?</code>
	Example	<code>jdbc:db2;DatabaseName=DWCTRLDB</code>

