



BEA WebLogic Adapter for RDBMS

Release Notes

Release 7.1
Released: June 2003
Revised: April 2004

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Change History

Date	Summary of Changes
April 2004	<ul style="list-style-type: none">■ The BEA WebLogic Adapter for RDBMS is packaged with WebLogic Integration 7.0 Service Pack 5 (SP5). Revised this document, the User Guide, and the Installation and Configuration Guide for WebLogic Integration 7.0 to account for the new packaging.■ Support for Sybase Adaptive Server 12 added to the version of the adapter packaged with WebLogic Integration 7.0 SP5. Documentation updated accordingly.
September 2003	<ul style="list-style-type: none">■ Added Oracle 9i to list of databases in supported platforms.
June 2003	<ul style="list-style-type: none">■ Initial Release.

This document includes the following topics:

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

The BEA WebLogic Adapter for RDBMS incorporates in-depth knowledge of relational database query access, transaction, replication, and copy management technologies to optimize the use of databases with enterprise application systems.

The BEA WebLogic Adapter for RDBMS enables you to integrate with RDBMS systems functioning as an event adapter that listens to a database and a service adapter that accesses a database. In both cases, the query or stored procedure content is expressed in XML. This provides a convenient and simple method for integrating databases with enterprise applications using BEA WebLogic Integration.

The adapter has the following services and event types:

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

The Adapter for RDMBS was originally released as a separate installable component. The adapter is now included in WebLogic Integration 7.0 Service Pack 5 (SP5). The information required to use the version of the adapter packaged with WebLogic Integration 7.0 SP5 has been added to the BEA WebLogic Adapter for RDMBS 7.1 documentation set. In addition to the information provided here, information about using the adapter with WebLogic Integration 7.0 SP5 can be found in the WebLogic Integration Release Notes at the following URL:

<http://edocs.bea.com/wli/docs70/relnotes/relnot.htm>

Enhancements

The following enhancements are included in the version of the Adapter for RDBMS packaged with WebLogic Integration 7.0 Service Pack 5 (April 2004):

CR112632	<i>Enhancement Request</i> Sybase support in the Adapter for RDBMS. <i>Enhancement Description</i> Support for Sybase Adaptive Server 12 has been added to the version of the adapter packaged with WebLogic Integration 7.0 SP5.
CR126592	<i>Enhancement Request</i> Support for multi-row parametrized SQL services. <i>Enhancement Description</i> Support for multi-row parametrized SQL services has been added to the version of the adapter packaged with Weblogic Integration 7.0 SP5.
CR132945	<i>Enhancement Request</i> When an error occurs in a multi-row inserts into a database using the Adapter for RDBMS the trace should provide additional information about the cause of the error. <i>Enhancement Description</i> In the version of the adapter packaged with Weblogic Integration 7.0 SP5, the trace will provide information about the row that generated the exception.

Problems Fixed

The following issues have been addressed in the version of the adapter packaged with WebLogic Integration 7.0 Service Pack 5 (April 2004):

CR128425	The Adapter for RDBMS didn't recognize overloaded stored procedures in Oracle. This issue has been fixed in the version of the adapter packaged with WebLogic Integration 7.0 Service Pack 5.
CR128854	If the table on which a <code>select_then_delete</code> event is configured contains a long datatype, an SQL exception was thrown. This issue has been fixed in the version of the adapter packaged with WebLogic Integration 7.0 Service Pack 5.

CR130318	When using the RDBMS adapter with Oracle, the application view did not correctly re-establish the connection to the database if Oracle went down and came back up again. This issue has been fixed in the version of the adapter packaged with WebLogic Integration 7.0 Service Pack 5.
CR130526	When using the Adapter for RDBMS with Oracle, calling a stored procedure service resulted in increasing the count of open cursors. This issue has been fixed in the version of the adapter packaged with WebLogic Integration 7.0 Service Pack 5.
CR136860	When using the Adapter for RDBMS with Sybase, the XA Connector failed to connect to EIS while configuring application views using JDBC URL. This issue has been fixed in the version of the adapter packaged with WebLogic Integration 7.0 Service Pack 5.
CR136870	When using the RDBMS adapter with Oracle, once an event was configured with <code>select_Then_Delete</code> , the event could not be edited. This issue has been fixed in the version of the adapter packaged with WebLogic Integration 7.0 Service Pack 5.
CR137005	When using the RDBMS adapter with Microsoft SQL Server, there was no support for <code>text</code> or <code>ntext</code> data types with <code>select_then_delete</code> events. This issue has been fixed in the version of the adapter packaged with WebLogic Integration 7.0 Service Pack 5.
CR137027	Because Oracle does not have the concept of a for tables, when browsing an Oracle database for a table or other object, the browse page displayed the fully qualified object name as <code>null . username</code> . The issue has been addressed in the version of the adapter packaged with WebLogic Integration 7.0 Service Pack 5.
CR172243	When using the RDBMS adapter with Oracle with a <code>TxDatasource</code> an <code>XA : PROTO</code> exception is thrown. This issue has been fixed in the version of the adapter packaged with WebLogic Integration 7.0 Service Pack 5.
CR172371	An issue related to support for <code>money</code> and <code>small money</code> data types with parameterized services on MS SQL Server has been fixed in the version of the adapter packaged with WebLogic Integration 7.0 Service Pack 5.
CR174952	When using the RDBMS adapter, once the polling interval is set, it could not be changed. This issue has been fixed in the version of the adapter packaged with WebLogic Integration 7.0 Service Pack 5.

Supported Platforms

The BEA WebLogic Adapter for RDBMS is included with WebLogic Integration Service Pack 5. The supported operating systems for that release can be found at the following URL:

http://edocs.bea.com/platform/suppconfigs/configs70/70_over/overview.html

If you are installing the adapter with an earlier release, the following operating systems are supported:

- Sun Solaris 8 (with Sun recommended patches)
- Microsoft Windows 2000 (with Service Pack 2)
- Red Hat Linux 7.3, Enterprise Linux 2.1

The Adapter for RDBMS is currently supported for use with the following relational database management systems.

- Oracle 8i
- Oracle 9i
- SQL Server 2000
- DB2 UDB V7
- Sybase Adaptive Server 12 (with WebLogic Integration 7.0 SP5 only)

Software Requirements

The BEA WebLogic Adapter for RDBMS is included with WebLogic Integration 7.0 Service Pack 5 (SP5). The software requirements and databases supported for WebLogic Integration 7.0 SP5 can be found at the following URL:

http://edocs.bea.com/platform/suppconfigs/configs70/70_over/overview.html

If you are installing the adapter with an earlier release, ensure that you have the following software installed:

- BEA WebLogic Server and WebLogic Integration.

The software can be downloaded from the BEA Web site at <http://commerce.bea.com/downloads/products.jsp>

The following versions are supported:

- WebLogic Platform 7.0 SP2. (As noted in above, the adapter is packaged with SP5.)

The information required to install WebLogic Platform 7.0 can be found at <http://edocs.bea.com/platform/docs70/install/index.html>

You must install the WebLogic Server and WebLogic Integration components of the platform.

- WebLogic Integration 2.1 with Service Pack 2, running on WebLogic Server 6.1 with Service Pack 2 or higher

The information required to install WebLogic Server 6.1 can be found at <http://edocs.bea.com/wls/docs61/install/index.html>

The information required to install WebLogic Integration 2.1 can be found at http://edocs.bea.com/wlintegration/v2_1sp/index.html

Note: When installing the adapter with WebLogic Integration 7.0 SP2 or WebLogic Integration 2.1 SP2, you must apply patch CR095687. Contact BEA Customer Support for this required patch. This patch is included in WebLogic Platform 7.0 SP5.

- Java Runtime environment 1.3.1 or higher
- Web browser: Internet Explorer 5.x or higher

The following databases are supported as the underlying repository WebLogic Integration 7.0 SP2:

- PointBase 4.2
- Oracle 8.1.7
- Oracle 9i Release 1
- Oracle 9i Release 2

- MS SQL Server 7.0 Service Pack 3
- MS SQL Server 2000 SP2
- DB2 7.2

Note: For the the databases supported as the underlying repository for WebLogic Integration 7.0 SP5, see http://edocs.bea.com/platform/suppconfigs/configs70/70_over/overview.html

The following databases are supported as the underlying repository for WebLogic Integration 2.1 SP2:

- Cloudscape 3.5.1
- Oracle 8.1.7, 9i Release 1
- Microsoft SQL Server 7 (SP3 or higher), 2000
- Sybase System 11.9.2

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

Determining the Adapter Version

Note: The following information applies only if you have installed the adapter as a separate component. When installed as part of WebLogic Integration 7.0 Service Pack 5 or higher, the `Manifest.mf` file included in the `BEA_RDBMS_7_1.ear` file reflects the WebLogic Integration 7.0 service pack level.

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.

For example, the `Manifest.mf` file for BEA WebLogic Adapter for RDBMS 7.1 contains the following:

```
Manifest-Version: 1.0
Created-By: Ant 1.4.1
Label:
```

Implementation-Vendor: BEA Systems
Implementation-Version: 7.1.0.0
Implementation-Title: WebLogic RDBMS Adapter

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, 7.1)
- `Y` represents the service pack number (in this case, 0)
- `ZZZZ` represents the build number of the release (in this case, 0)

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

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 Change Request (CR) number or Case number. Please refer to this number when contacting BEA Customer Support for assistance in tracking the problem identified. For contact information, see [“Contacting BEA Customer Support”](#) on page 15.

Table 1. Known Limitations

1	CR105737	BLOB and CLOB Data Types Not Supported
	Problem	BLOB and CLOB data types are not supported in Stored Procedures Service Type, due to limitations in the driver implementation (which are proprietary).
	Platform	All platforms
	Workaround	No workaround exists currently.

Table 1. Known Limitations (Continued)

2	CR105740	Driver Problem - CHAR Data Type
	Problem	While using Oracle Thin driver, on invocation of 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.
	Platform	All platforms
	Workaround	No workaround exists currently.
3	CR105741	Multiple REFCURSOR Error
	Problem	Stored Procedures returning multiple REFCURSOR data type are not supported due to limitations in the Oracle Thin driver. Only stored procedure returning single REFCURSOR can be executed through the adapter.
	Platform	All platforms
	Workaround	No workaround exists currently.

Table 1. Known Limitations (Continued)

4	CR105742, CR105744, CR105745, CR105746, CR105747, CR105748	SQL Parser Error
Problem	<p>Service of the type Standard SQL/Parameterized SQL will not get created for the SQL statements of the type:</p> <ul style="list-style-type: none"> ■ Sub-query for example, <code>SELECT * FROM EMP WHERE EMP_ID IN (SELECT EMP_ID FROM BONUS WHERE SAL>5000)</code> ■ Derived columns in the SELECT clause for example, <code>SELECT SAL*100 FROM BONUS</code> ■ BETWEEN keyword in the SELECT clause for example, <code>SELECT SAL FROM BONUS WHERE SAL NOT BETWEEN 7000 AND 8000</code> ■ Functions in the SELECT clause for example, <code>SELECT AVG(SAL) FROM BONUS</code> ■ Inner join using (+) keyword for example, <code>SELECT A.Varchar1, B.Varchar1 FROM BASE A, BASEN B WHERE A.Integer1(+) = B.Integer1</code> <p>It will throw the following exception: <code>java.lang.reflect.InvocationTargetException: com.metamata.parse.ParseException.</code> This is due to the limitations of the SQL Parser implementation used for the service type "Standard SQL" and "Parameterized SQL".</p>	
Platform	All platforms	
Workaround	<p>Use Service of the type "Arbitrary SQL" to execute any SQL statement.</p>	

Table 1. Known Limitations (Continued)

5	CR105743	Driver Problem - CHAR Data Type
	Problem	<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 have 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 records of interest. However, the same works correctly with SQLServer and DB2 drivers.</p>
	Platform	All platforms
	Workaround	No workaround exists currently.
6	CR105875, CR106126	Driver Problem - Commit on XA Connection
	Problem	<p>Cannot test using XA connection obtained through Oracle Thin Driver 9.2.0 to execute services. The action done by the service does not commit. However, the same works when using an XA connection obtained through SQL Server driver.</p>
	Platform	All platforms
	Workaround	Can only test XA with the Oracle Thin Driver from a workflow.

Table 1. Known Limitations (Continued)

7	CR106128, CR106279	Set Transaction Error
	Problem	Using Normal/XA connection to execute services with two different transaction isolation level gives the following exception: java.sql.SQLException: ORA-01453: SET TRANSACTION must be first statement of transaction. Known problem in Oracle Thin Driver 9.2.0 (shipped with Weblogic).
	Platform	All platforms
	Workaround	Services falling under a scope of a transaction (within the same resource manager) should have the same transaction isolation level. For more information, see http://edocs.bea.com/wls/docs70/jta/thirdpartytx.html
8	CR107186	Driver problem - Use of Semi-colon
	Problem	While using Oracle Thin Driver 9.2.0 - "Arbitrary SQL" service type does not accept ';' (semi-colon) as a part of SQL Statement. Gives an error at run time.
	Platform	All platforms
	Workaround	Avoid using ";" at the end of the SQL Statement.
9	CR108263	Driver problem - Decimal and Numeric Data Type
	Problem	DB2 JDBC Driver (not 2.1 compliant) for Solaris does not have implementation for CallableStatement.getBigDecimal () method. Executing stored procedures with Decimal and Numeric Data type on Solaris throws abstract method exception.
	Platform	Solaris
	Workaround	No workaround exists currently.

Table 1. Known Limitations (Continued)

10	CR136866	Issue with <code>Select_Then_Delete</code> Event
	Problem	When using the RDBMS adapter with Microsoft SQL Server 2000 with the XA driver, the <code>Select_Then_Delete</code> event selects data from the database without deleting it even when the delete option is set to yes.
	Platforms	All
	Workaround	Use a non-XA driver for events.
11	CR174760	Issue deploying insert trigger event on an MSSQL table
	Problem	Deploying an insert trigger event on an MSSQL table containing columns of datatype money or small money causes the following SQL exception: <pre>java.sql.SQLException: [Microsoft] [SQLServer 2000 Driver for JDBC] [SQLServer]Disallowed implicit conversion from data type money to data type varchar</pre>
	Platforms	All
	Workaround	None
12	CR174360	XA Transactions on Sybase
	Problem	XA use cases are currently not supported for services and events on Sybase.
	Platforms	All
	Workaround	No workaround currently exists.
13	CR137012	XA Driver and Events
	Problem	Events do not operate under a global transaction. An XA driver should not be used for events
	Platforms	All
	Workaround	No workaround currently exists.

Table 1. Known Limitations (Continued)

14	CR137025	Data types not supported for parametrized SQL service with Oracle EIS
	Problem	When using the RDBMS adapter with an Oracle EIS, there is no support for raw or longraw data types with parametrized SQL services.
	Platforms	All
	Workaround	No workaround currently exists.
15	CR137004	Irrelevant values in XML response when <code>isNull="true"</code>
	Problem	The XML response from the events and services may contain irrelevant values when the <code>isNull</code> value is retrieved as <code>true</code> . Please ignore these values.
	Platforms	All
	Workaround	No workaround currently exists. The responses can be ignored.
16	CR137030	Functions Not Listed When Browsing Stored Procedures in It'DB2
	Problem	While browsing the Stored Procedures for DB2 EIS, the Functions are not listed. This is the limitation of the Browse functionality for Stored Procedure service.
	Platforms	All
	Workaround	No workaround currently exists.

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

