



# BEA AquaLogic Data Services Platform™

## Release Notes

**Note:** Product documentation is subject to post-release revision. If so, it will be made available from the BEA edocs site, listed below. Any major changes are noted in the online version of these notes.

<http://edocs.bea.com/al dsp/docs25/index.html>

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# Release Notes

**BEA AquaLogic Data Services Platform, Version 2.5**

**Most recent revision: September 18, 2006**

## About BEA AquaLogic Data Services Platform

AquaLogic Data Services Platform™ provides read and write access to information in relational databases, Web services, Java functions, XML files, delimited files, and other types of disparate data.

Once developed, application developers — using access technologies such as the AquaLogic Data Services Platform mediator API, JDBC, SQL, or AquaLogic Data Services Platform controls — can invoke AquaLogic Data Services Platform functions as a means of providing their applications with access to integrated, updateable data from their enterprise.

Metadata, security, and cache management facilities are provided through the Data Services Platform Console (ldconsole).

**Note:** AquaLogic Data Services Platform was originally named Liquid Data for WebLogic®. Some artifacts of the original Liquid Data name remain in the product, path, and other artifacts.

## Revision Policy

Release Notes are subject to revision between releases. The most recent version can always be found at:

<http://edocs.bea.com/al dsp/docs25/relnotes/index.html>

Items modified or added post-release are so marked and dated.

This document includes the following topics:

- [What's New in AquaLogic Data Services Platform 2.5](#)
- [Supported Configurations](#)
- [Product Limitations and Workarounds](#)
- [References](#)

## What's New in AquaLogic Data Services Platform 2.5

AquaLogic Data Services Platform version 2.5 adds a number of new features to AquaLogic Data Services Platform. [Table 1](#) list many of these features.

**Table 1 New and Improved Functionality in AquaLogic Data Services Platform Version 2.5**

Feature	Details
<b>Integration with AquaLogic Service Bus</b>	<p>Integration is provided to allow AquaLogic Service Bus users to leverage AquaLogic Data Services Platform for read/write database and other data source connectivity. Capabilities include:</p> <ul style="list-style-type: none"> <li>• Allowing custom AquaLogic Service Bus Transport to invoke data services directly.</li> <li>• Allowing data services to be invoked using RMI (thus avoiding Web services communication issues).</li> <li>• Preserving the security context during communication between services.</li> </ul>
<b>9.2 Client Support</b>	<p>Add support for WebLogic 9.2 clients in two areas:</p> <ul style="list-style-type: none"> <li>• Workshop controls</li> <li>• Mediator API</li> </ul>
<b>Excel Add-in</b>	<p>Provides on-demand query services and Excel reporting capabilities for moderately-sized data sets are involved. Specific features include:</p> <ul style="list-style-type: none"> <li>• Ability to invoke AquaLogic Data Services Platform-generated Web services within Microsoft Excel.</li> <li>• Data service data post-processing.</li> <li>• Secured Web service invocation.</li> <li>• Ability to schedule report refreshes.</li> </ul>



**Table 1 New and Improved Functionality in AquaLogic Data Services Platform Version 2.5**

Feature	Details
<b>JDBC Driver Enhancements</b>	<p>The AquaLogic Data Services Platform JDBC driver and associated tooling has been enhanced. Specifically:</p> <ul style="list-style-type: none"> <li>• Driver is more fully based on the 3.0 JDBC specification.</li> <li>• SQL-92 syntax is more fully supported.</li> <li>• Data streaming through the JDBC driver is more fully supported for large result sets.</li> <li>• The latest version of major reporting tools such as Crystal Reports, BusinessObjects, and Hyperion have been successfully tested.</li> </ul>
<b>Extending Tooling to Support SQL</b>	<p>A number of tooling enhancements have been made to provide enhanced support for SQL in two key areas:</p> <ul style="list-style-type: none"> <li>• Accessing SQL through data services.</li> <li>• Allowing SQL reporting tools to better access information under data service management.</li> </ul> <p>Specific new functionality includes:</p> <ul style="list-style-type: none"> <li>• Ability to publish data services as JDBC artifacts, with refactoring support.</li> <li>• Ability to create substitutions for generated SQL statements. This makes it possible for administrators to post-edit generated SQL for the limited purpose of providing database hints and so forth.</li> <li>• Standalone query plan viewer supporting both XQuery and SQL</li> </ul>
<b>JDBC Metadata Access Control</b>	<p>Allows use of the AquaLogic Data Services Platform console to secure metadata for:</p> <ul style="list-style-type: none"> <li>• SQL objects, which can be made invisible to the JDBC driver or</li> <li>• Data hiding, where the fields are visible, but the data is hidden to the unauthorized user.</li> </ul>

## Supported Configurations

As a WebLogic Workshop application, AquaLogic Data Services Platform generally supports the same platforms, operating systems, processor architecture, SDKs, and RDBMS systems as does supported servers, as described under [“WebLogic Server and Client Support.”](#)

**Note:** For details on post-release testing of other operating systems, SQL databases, JDBC drivers, and Web services see the online version of these [Release Notes](#):

<http://edocs.bea.com/al dsp/docs25/relnotes/relnotes.html>

**Note:** The minimum RAM recommendations are for supporting a single instance of WebLogic Server on which AquaLogic Data Services Platform is running. You may need more memory if you run two or more instances of WebLogic Server and AquaLogic Data Services Platform. Some systems use disk space as virtual RAM. Performance when running in virtual RAM may be markedly slower than when running in physical RAM.

The following abbreviations are used in this section:

**Table 2 Testing Classifications**

Classification	Meaning
<b>TESTED</b>	Tested.
<b>SUPPORTED</b>	Not specifically tested, but should work.
<b>NS</b>	Not supported.

## WebLogic Server and Client Support

A supported version of WebLogic Platform 8.1 is needed for development. The following table (Table 3) details WebLogic server and client support.

**Table 3 AquaLogic Data Services Platform 2.5 WebLogic Platform and Client Support**

Component	Platform	JDK	Testing Status
Platform Server	WebLogic 8.1 SP4	Java HotSpot VM 1.4	SUPPORTED
		JRockit 1.4	SUPPORTED
	WebLogic 8.1 SP5	Java HotSpot VM 1.4	TESTED
		JRockit 1.4	TESTED
	Weblogic 8.1 SP6	Java HotSpot VM 1.4	SUPPORTED
		JRockit 1.4	SUPPORTED
	WebLogic 9.x	Java HotSpot VM 1.5	NS
		Jrockit R26.0.0	NS

**Table 3 AquaLogic Data Services Platform 2.5 WebLogic Platform and Client Support**

Component	Platform	JDK	Testing Status
<b>Client</b>	WebLogic 8.1 SP4	Sun JDK 1.4	SUPPORTED
		JRockit 1.4	SUPPORTED
	WebLogic 8.1 SP5	Sun JDK 1.4	TESTED
		JRockit 1.4	TESTED
	Weblogic 8.1 SP6	Java HotSpot VM 1.4	SUPPORTED
		JRockit 1.4	SUPPORTED
	WebLogic 9.x	Sun HotSpot VM 1.5	TESTED
		JRockit R26.0.0	TESTED

## Supported Operating Systems and Hardware

The following table (Table 4) lists operating systems and/or hardware that has been specifically tested with AquaLogic Data Services Platform using the criteria identified in Table 2. Platforms not listed are unsupported.

**Table 4 Platform and Version Support Provided by AquaLogic Data Services Platform 2.5**

Operating System	Platform	Version	Testing Status
<b>Microsoft Windows</b>	Windows Server 2000	x86 <sup>1</sup>	TESTED
	Windows Server 2003	x86 <sup>1</sup>	TESTED
	Windows XP	XP <sup>1</sup>	TESTED
<b>UNIX</b>	HP-UX	HP-UX 11i V1 on PA-RISC	TESTED
		HP-UX 11i V2 on PA-RISC	SUPPORTED
	Sun Solaris	8 on SPARC	TESTED
		9 on SPARC	TESTED

**Table 4 Platform and Version Support Provided by AquaLogic Data Services Platform 2.5**

Operating System	Platform	Version	Testing Status
Linux	Red Hat Enterprise	10 on SPARC	TESTED
		7.2 (x86) <sup>2</sup>	TESTED
		3.0 AS, ES, WS on x86 <sup>1</sup>	TESTED
		4.0 AS, ES, WS on x86 <sup>1</sup>	TESTED

1. Includes support for WebLogic Workshop IDE (design time).
2. Support for WebLogic Workshop IDE (design time) is supported.

## Support for Relational Database Management Systems

In general any thread-safe, transaction-callable relational database management system (RDBMS) accessible through JDBC should be available to AquaLogic Data Services Platform. Several vendor-specific levels of support are provide, as shown in [Table 5](#).

**Table 5 Vender-specific Levels of RDBMS Support**

Support Level	Meaning
<b>Extended</b>	The specific database version has been tested and found to be compatible with AquaLogic Data Services Platform. Extended support means that support is provided for stored procedures and some database functions. See <a href="#">Table 6</a> for full details on vendor and version support.
<b>Tested</b>	The specific database version has been tested and found to be compatible with AquaLogic Data Services Platform. Some operations may be pushed down to the database level. Tested support is provided for such vendors as Informix, MySQL, and Microsoft Access.
<b>Generic</b>	Although the particular database versions has not been tested, basic SQL read and write calls should work if the database supports JDBC standards. Generic support is sometimes referred to as <i>base support</i> .

Databases which have been tested with AquaLogic Data Services Platform 2.5 are listed in [Table 6](#). Subsequent versions of these DBMS systems should work, but have not been specifically verified.

**Table 6 RDBMS Support in AquaLogic Data Services Platform 2.5**

Database	Version(s)	Support Status	Caching Support for Vendor
<b>Oracle</b>	10g	TESTED	Yes
	9i	TESTED	
	8.1.7	TESTED	
	RAC	SUPPORTED	
<b>IBM DB2</b>	8.1	TESTED	Yes
<b>Sybase</b>	12.5.2 or prior	SUPPORTED	Yes
	12.5.2 and above	TESTED	
<b>Microsoft SQL Server</b>	SQL Server 7	SUPPORTED	Yes
	2000	TESTED	
	SQL Server 2005	SUPPORTED	
	2000 Enterprise Edition (64-bit)	NS	
<b>Informix</b>	IDS with Universal Data Option (9.2 and above)	SUPPORTED	No
	IDS 9.3	TESTED	
	IDS 9.4	SUPPORTED	
<b>Teradata</b>	V2r4.1.3,	SUPPORTED	No
	v2r5.1.x	SUPPORTED	
	v2r6.0	SUPPORTED	
<b>MS Access</b>	2000	SUPPORTED	No
<b>MySQL</b>	4.1.14	TESTED	No
	5	SUPPORTED	
<b>Other DBMS systems</b>	Generic support only	SUPPORTED	No
<b>PointBase</b>	4.4 <sup>1</sup>	NS	No

1. PointBase Server is an all-Java DBMS product included with WebLogic Platform 8.1 distribution solely for evaluation purposes, either in the form of custom trial applications or through packaged sample applications provided with WebLogic Platform. Non-evaluation development or other use of the PointBase Server requires that a separate PointBase Server license be obtained directly from DataMirror. AquaLogic Data Services Platform does not support PointBase for production server deployments.

## Supported Database-JDBC Driver Matrices

The following table (Table 7) describes results of testing AquaLogic Data Services Platform against various databases under different JDBC drivers. Both the BEA and native drivers were tested in XA and non-XA modes. Limitation encountered are noted as CR numbers in the Comments column.

**Table 7 Matrices of Databases and JDBC Drivers Supported by AquaLogic Data Services Platform**

Database	JDBC Driver Type	Data Source Type	Comments
<b>Oracle</b>	BEA non-XA	tables	CR199675
		stored procedures	CR202963 CR212515
	BEA XA	tables	CR199675
		stored procedures	CR202963 CR212515
		tables	CR265965
		Oracle non-XA	stored procedures
Oracle XA		tables	
<b>IBM DB2</b>	Oracle XA	stored procedures	CR212515 CR202962
	BEA non-XA	tables	
		stored procedures	CR227440
	BEA XA	tables	
		stored procedures	CR227440

**Table 7 Matrices of Databases and JDBC Drivers Supported by AquaLogic Data Services Platform**

<b>Database</b>	<b>JDBC Driver Type</b>	<b>Data Source Type</b>	<b>Comments</b>
	DB2 non-XA	tables	
		stored procedures	CR227440
	DB2 XA	tables	CR227486
		stored procedures	CR227440
<b>Sybase</b>	BEA non-XA	tables	
		stored procedures	
		BEA XA	tables
		stored procedures	
	Sybase non-XA	tables	CR223429
		stored procedures	
	Sybase XA	tables	CR223429
stored procedures			
<b>Informix</b>	BEA non-XA	tables	
stored procedures		not supported	
	BEA XA	tables	
		stored procedures	not supported
	Native non-XA	tables	CR223486 CR226171
		stored procedures	not supported
	Native XA	tables	
		stored procedures	not supported
	BEA non-XA	tables	CR211701
		stored procedures	not supported

**Table 7 Matrices of Databases and JDBC Drivers Supported by AquaLogic Data Services Platform**

Database	JDBC Driver Type	Data Source Type	Comments
MS-SQL Server	BEA XA	tables	
		stored procedures	
	MS-SQL Server non-XA	tables	CR214730
		stored procedures	CR202041
	MS-SQL Server XA	tables	
		stored procedures	

Details related to these CR numbers can be found in [“Product Limitations and Workarounds.”](#)

## Configuring the AquaLogic Data Services Platform JDBC Driver for Reporting Tools

The following table (Table 8) describes the matrices for configuring the AquaLogic Data Services Platform JDBC driver for supported reporting applications.

**Note:** In cases where the reporting tool supports JDBC connectivity, use the AquaLogic Data Services Platform JDBC driver.

**Table 8 Matrices of Required Connectivity Software for Reporting Applications Supported by the AquaLogic Data Services Platform JDBC Driver**

Application and Version	JDBC Native	OpenLink ODBC/JDBC Lite Bridge
Crystal Reports XI	TESTED	
Business Objects XI, Release 2		TESTED
Hyperion BI 9+, Interactive Reporting		TESTED
MS Access 2000		TESTED
MS Excel		TESTED



## Supported Web Services Standards

The following table (Table 9) lists Web services standards supported by AquaLogic Data Services Platform 2.5.

**Table 9 Supported Web Services Standards**

Web Services Standard	Version
SOAP	1.1
WSDL	1.1
JAX-RPC	1.0

## Product Limitations and Workarounds

This section contains a table (Table 10) which lists known limitations associated with the current BEA AquaLogic Data Services Platform 2.5 release that users might encounter. Information regarding these limitations includes a CR (change request) number for each problem, applicable platform, a detailed description of the problem and workarounds, where applicable.

Please contact BEA customer support at:

<http://support.bea.com>

for assistance in tracking unresolved issues.

**Table 10 Known Product Limitations and Possible Workarounds**

Topic	Details
<b>CR292297</b>	<b>Importing two or more procedures that have the same return type into an existing data service may not succeed.</b>
<b>Platform</b>	All.
<b>Description</b>	An exception can occur when importing multiple data service procedures, if two or more of the procedures have the same return type.
<b>Workaround</b>	Import procedures having the same return type using separate import operations.

**Table 10 Known Product Limitations and Possible Workarounds**

Topic	Details
<b>CR292585</b>	<p><b>When publishing a WSDL generated from AquaLogic Data Services Platform to the AquaLogic Service Registry, multiple entries may appear for the same WSDL.</b></p> <p><b>Similarly, when configuring a Web service from the AquaLogic Service Registry through the Excel Add-in, multiple entries for the same WSDL may be seen.</b></p>
<b>Platform</b>	All.
<b>Description</b>	When a JWS is generated, by default the form-get and form-post flags are set to True. This setting in conjunction with the absence of a source directive (CR268183) cause multiple entries to appear.
<b>Workaround</b>	<p>Using the Property Editor in WebLogic Workshop, set the form-get and form-post flags to False. Then, if the goal is to generate a WSDL for Excel Add-in use, the following entry should first be placed at the beginning of the comments in the JWS source file:</p> <pre>* @editor-info:link autogen-style="stateless" source("&lt;jcxfilename&gt;.jcx" autogen="true"</pre>
<b>CR286359</b>	<b>When importing or synchronizing metadata with an Oracle database, the native width of float elements may be incorrectly calculated.</b>
<b>Platform</b>	All, using the BEA Oracle JDBC driver.
<b>Description</b>	When importing or synchronizing metadata with an Oracle data source, the width of float elements may be rendered incorrectly (15 instead of 6 or 9). This problem has been observed when using the WebLogic JDBC Oracle driver (version 3.0.5.0).
<b>Workaround</b>	Metadata synchronization using Oracle's native JDBC driver (Oracle.jdbc.driver.OracleDriver) did not exhibit this problem. Therefore, if the width of native float elements is an issue use the Oracle JDBC driver.
<b>CR292429</b>	<b>When working with DSP Transport in the AquaLogic Service Bus Console while using a multibyte character set (such as Japanese), unexpected characters may appear in editing fields.</b>
<b>Platform</b>	All.

**Table 10 Known Product Limitations and Possible Workarounds**

<b>Topic</b>	<b>Details</b>
<b>Description</b>	When using the AquaLogic Service Bus Console in conjunction with a DSP Transport Configuration, if the Request Encoding field or the Response Encoding field is set to utf-8 (the default value) unexpected characters may appear in editing fields when using multibyte character sets.
<b>Workaround</b>	When editing any field in a DSP Transport Business Service configuration, if the request encoding or response encoding should be any value other than the default (utf-8), the setting must be reset to their correct values before saving the configuration.
<b>CR288104</b>	<b>AquaLogic Data Services Platform functions accessed through a 9.2-level Data Service control via a Java Web service may not successfully execute.</b>
<b>Platform</b>	All.
<b>Description</b>	<p>This problem can occur due to differences in the way Web service templates are generated under WebLogic 8.1 and Weblogic 9.2 The template that is generated by a WebLogic Service 9.2 test browser expects a qualified schema and therefore adds namespace prefixes to all elements in the schema. For details see: <a href="#">“CR288104 Details.”</a></p> <p>By contrast, the schema associated with the WebLogic 8.1-level data service does not have elementFormDefault set, so it defaults to unqualified. However, the WebLogic 9.2 Web service sends a qualified xml fragment, causing an error when the schema is passed to the AquaLogic Data Services Platform server running under WebLogic 8.1.</p>
<b>Workaround</b>	Users working with Weblogic 9.2-level Web services should replace the template generated by the WebLogic 8.1 test browser with the template generated by the WebLogic 9.2 test browser. Alternatively, generated code can be edited to include the XMLBean values in the method before passing it to the AquaLogic Data Services Platform control method.
<b>CR292257</b>	<b>Duplicate names are allow when mapping stored procedures to data services during metadata import.</b>
<b>Platform</b>	All.

**Table 10 Known Product Limitations and Possible Workarounds**

<b>Topic</b>	<b>Details</b>
<b>Description</b>	The SQL name mapping user interface may allow more than one stored procedure with the same name to be configured under the same schema. However, if more than one stored procedure with the same name is configured, the user will see unexpected results in the JDBC metadata API and on execution of the procedures via JDBC.
<b>Workaround</b>	In the Publish Data Service Functions for SQL Use wizard, manually rename stored procedures so that there are no duplicate names.
<b>CR269337</b>	<b>Undetected classname collisions in a Workshop application can cause compilation errors.</b>
<b>Platform</b>	All.
<b>Description</b>	<p>This problem can occur when compiling schema files into SDOs using AquaLogic Data Services Platform. If an element or attribute has the same name (such as 'sequence') as an SDO reserved method (such as 'getSequence()'), SDO will — through the XMLBean Java code generator — attempt to “uniqueify” the method by generating 'getSequence2', as an example.</p> <p>Here is a list of SDO keywords which could contribute to such name collision conditions:</p> <ul style="list-style-type: none"> <li>• <code>getBoolean, getByte, getChar, getDouble, getFloat, getInt, getLong, getShort, getBytes, getBigDecimal, getBigInteger, getDataObject, getDate, getString, getList, getSequence</code></li> <li>• <code>setBoolean, setByte, setChar, setDouble, setFloat, setInt, setLong, setShort, setBytes, setBigDecimal, setBigInteger, setDataObject, setDate, setString, setList, setSequence</code></li> </ul>
<b>Workaround</b>	<p>To use the uniqueified name:</p> <ul style="list-style-type: none"> <li>• Add a copy of <code>sdo.xsdconfig</code> to your schema project and</li> <li>• In your Java file correct the entry to the uniqueified name as in: <code>addrLine.setSequence2(1);</code></li> </ul>
<b>CR291781</b>	<b>Excel Add-in will initially attempt to reuse HTTP basic authentication login credentials for all Web services hosted on the same port.</b>
<b>Platform</b>	All.

**Table 10 Known Product Limitations and Possible Workarounds**

<b>Topic</b>	<b>Details</b>
<b>Description</b>	<p>In cases where multiple Web services are configured in a single Excel worksheet, and these Web services are hosted by the same host machine and port number, the Excel Add-In will initially attempt to reuse the previously accepted username/password for these services.</p> <p>If the username/password is not valid for a particular Web service, a login dialog will be displayed. Subsequent Web service invocations during the same Excel session will use the correct login information for each service.</p>
<b>Workaround</b>	<p>No action has to be taken, unless it is not deemed acceptable that an attempt is made to authenticate a web service call initially with incorrect credentials.</p> <p>In such cases Web services requiring different credentials should be grouped in different servers OR Web services requiring different credentials hosted on the same host/port should be used on separate Excel worksheets.</p>
<b>CR291062</b>	<b>When using AquaLogic Data Services Platform with AquaLogic Service Bus, 'dsp' is not supported for inbound transport.</b>
<b>Platform</b>	All.
<b>Description</b>	A null pointer exception occurs if you choose dsp type when creating a proxy service in AquaLogic Service Bus. This is because the data service option erroneously appears in the list of available transport types for this kind of operation.
<b>Workaround</b>	Avoid selecting the dsp type from available options when creating a proxy service in AquaLogic Service Bus.
<b>CR290239</b>	<b>Several underlying WSDL Element definition attributes and Attribute definition attributes are not currently supported in the AquaLogic Data Services Platform Excel Add-in.</b>
<b>Platform</b>	All.

**Table 10 Known Product Limitations and Possible Workarounds**

<b>Topic</b>	<b>Details</b>
<b>Description</b>	<p>The following Element definition attributes are currently unsupported:</p> <ul style="list-style-type: none"> <li>• substitutionGroup</li> <li>• default</li> <li>• fixed</li> <li>• form</li> <li>• abstract</li> <li>• block</li> <li>• final</li> </ul> <p>The following Attribute definition attributes are currently unsupported:</p> <ul style="list-style-type: none"> <li>• default</li> <li>• fixed</li> <li>• form</li> <li>• abstract</li> <li>• block</li> <li>• final</li> </ul>
<b>Workaround</b>	Any WSDL containing the definition attributes listed above may not function as expected. If problems are encountered, remove these definition attributes from your WSDL.
<b>CR290041</b>	<p><b>For data service files that are large and slow to compile, you may need to adjust the compiler.delay flag to improve response time during source editing.</b></p> <p><b>Consecutive key strokes during source editing are batched into a single compile event. If file compilation is slow, then you may want to adjust the time window for batching key strokes for compilation.</b></p>
<b>Platform</b>	All.
<b>Description</b>	When editing large files in Source View, editing during compilation may cause multiple compilations to occur.
<b>Workaround</b>	Adjust the compiler.delay environment variable (in milliseconds) to increase the delay between compilations when doing editing. This property should be specified in the <code>workshop.cfg</code> file as a '-D' parameter.

**Table 10 Known Product Limitations and Possible Workarounds**

<b>Topic</b>	<b>Details</b>
<b>CR285121</b>	<b>When creating a Data Service control under WebLogic 9.2, an error can occasionally occur if the editor of the Server View is open at the same time.</b>
<b>Platform</b>	All.
<b>Description</b>	When generating or editing a Data Service control on Weblogic 9.2, it is recommended that the editor of the Server View not be open.
<b>Workaround</b>	<p>When generating or editing a Data Service control, if you need to test the JWS, use the:</p> <p style="padding-left: 40px;">Run as → Run on Server</p> <p>option on the right click menu. This option deploys/undeploy the user component.</p> <p>If, in rare cases, the control fails to undeploy, then access the Web-based Weblogic administration console and perform the required operation from there.</p> <p>If the aforementioned editor is already open and you want to edit/generate a Data Service control, first close the editor and then restart WebLogic Workshop.</p>
<b>CR284995</b>	<b>Exception when publishing a WSDL from a data service when an underlying schema does not have a targetNamespace defined.</b>
<b>Platform</b>	All.
<b>Description</b>	<p>An exception indicating that you cannot map a prefix when no namespace is present may occur when attempting to generate a WSDL file from a valid data service.</p> <p>This is due to the fact that one or more schemas that are depended upon by the data service do not have a targetNamespace defined.</p>
<b>Workaround</b>	Make sure that all schemas underlying your data service have a proper targetNnamespace defined.
<b>CR284834</b>	<b>When accessing data from Informix, use the Informix native JDBC driver when possible.</b>
<b>Platform</b>	All using Informix database systems.
<b>Description</b>	The WebLogic Informix JDBC driver is less performant than the native Informix JDBC driver when accessing data through AquaLogic Data Services Platform.

**Table 10 Known Product Limitations and Possible Workarounds**

Topic	Details
<b>Workaround</b>	No workaround necessary, but for best performance with Informix data use its native JDBC driver.
<b>CR284534</b>	<b>Unclear exception message when using a Data Service control with WebLogic 9.2.</b>
<b>Platform</b>	All.
<b>Description</b>	<p>When using a Data Service control with Weblogic 9.2, if the <code>wls90interop.jar</code> that is required to be on the AquaLogic Data Services Platform Top level is not used correctly, a runtime exception may occur. The exception will appear similar to:</p> <pre>weblogic.rjvm.PeerGoneException: ; nested exception is: java.io.EOFException</pre>
<b>Workaround</b>	<p>If you see such an exception, check the ALDSP 2.x server log. If an error such as the following appears:</p> <pre>java.io.InvalidClassException: javax.xml.namespace.QName; local class incompatible: stream classdesc serialVersionUID = 4418622981026545151, local class serial VersionUID = -9120448754896609940</pre> <p>then the cause of this error is likely due to a missing <code>wls90interop.jar</code> file in the ALDSP 2.x server class path.</p>
<b>CR279492</b>	<b>When using a data service based on a Web service at runtime, a validation error may occur if form and/or elementFormDefault do not match. This happens because redefinition of the 'Form' attribute is not supported.</b>
<b>Platform</b>	All.
<b>Description</b>	<p>At design time, if:</p> <ul style="list-style-type: none"> <li>• The <code>elementFormDefault</code> attribute in the primary schema does not match the <code>elementFormDefault</code> attribute in an imported or included schema, or</li> <li>• if the <code>form</code> attribute of an element does not match the <code>elementFormDefault</code> attribute in the primary schema.</li> </ul> <p>then, at runtime, validation errors will occur when accessing Web service-based data services.</p>



**Table 10 Known Product Limitations and Possible Workarounds**

<b>Topic</b>	<b>Details</b>
<b>Workaround</b>	The elementFormDefault in the primary schema and any imported or included schemas should match prior to compilation. Also, the form attribute of the element should match the elementFormDefault in the primary schema.
<b>CR288384</b>	<b>The Data Lineage feature in AquaLogic Data Services Platform administration console requires the X11 graphical environment in Linux and UNIX environments.</b>
<b>Platform</b>	UNIX and Linux.
<b>Description</b>	<p>The following error:</p> <pre>“java.lang.NoClassDefFoundError: sun/awt/X11GraphicsEnvironment”</pre> <p>may occur while accessing the Data Lineage feature of AquaLogic Data Services Platform Administration Console. The circumstances arise when the Administration Server hosting AquaLogic Data Services Platform Administration Console is running on a Linux or UNIX host with one of the following conditions (not an exhaustive list):</p> <ol style="list-style-type: none"> <li>1. A headless environment is in use — for example, without monitor and/or X server.</li> <li>2. With a monitor, but the user running the administration server is not the same user logged-in from the monitor, and therefore, does not have display permissions to the default display (:0.0).</li> </ol>
<b>Workaround</b>	<p>To resolve this issue, set the headless property to true:</p> <pre>-Djava.awt.headless=true</pre> <p>in the Weblogic Server startup script (<code>startWeblogic.sh</code>) in the section of the script where the server is started.</p>
<b>CR283262</b>	<b>Unable to add criteria to SQL when using MS Excel with EasySoft or OpenLink.</b>
<b>Platform</b>	All.
<b>Description</b>	In Microsoft Query, adding a query criteria using the Add Criteria window, (Criteria →Add Criteria) throws an error message when accessing AquaLogic Data Services Platform data sources.

**Table 10 Known Product Limitations and Possible Workarounds**

Topic	Details
<b>Workaround</b>	<p>To workaround this issue:</p> <ol style="list-style-type: none"> <li>1. In the Microsoft Query window, select the Records menu option. If the Automatic Query option is checked, then clear this option.</li> <li>2. Click View → Criteria. This will add a Criteria window to the query window into which you can enter appropriate criteria.</li> <li>3. To execute query with the criteria added, click Records → Query Now.</li> </ol>
<b>CR270188</b>	<b>Cannot use the WLS Administration Console to define a security policy for accessing the AquaLogic Data Services Platform Console.</b>
<b>Description</b>	<p>If a user defines a security policy in WebLogic admin console for AquaLogic Data Services Platform console (<code>ldconsole.ear</code>), only the user in the Administrator role can access/login to the AquaLogic Data Services Platform console. Other read-only roles (Operator, Monitor, Deployer) fail to access to AquaLogic Data Services Platform console, instead returning the error:</p> <pre data-bbox="485 869 1096 946">Authentication Denied The username or password has been refused by WebLogic Server.</pre>
<b>Platform</b>	All.
<b>Workaround</b>	<p>By default <code>ldconsole</code> is allowing access ONLY to administrator group. Only when security policy is defined, are other users allowed per defined security policies. The operation can be completed using the following steps:</p> <ol style="list-style-type: none"> <li>1. Log in to the WLS console with admin credentials.</li> <li>2. Created a new user (such as <code>JACK_BLACK</code>).</li> <li>3. Assigned the user to the Monitors group.</li> <li>4. Log out of the WLS console.</li> <li>5. Log in to <code>ldconsole</code> in the Admin role.</li> <li>6. Edit security settings in the AquaLogic Data Services Platform metadata browser to add a security policy allowing read access to users of group "Monitors".</li> <li>7. Log in to the <code>ldconsole</code> page using the <code>JACK_BLACK</code> user credentials.</li> </ol>
<b>CR233032</b>	<p><b>Under some conditions a data service project deployment fails with an error similar to:</b></p> <p><b>Deployment failed, Last Message from the server ...</b></p>

**Table 10 Known Product Limitations and Possible Workarounds**

Topic	Details
<b>Description</b>	Under some conditions the <code>weblogic-application.xml</code> can become corrupted when deploying a AquaLogic Data Services Platform-enabled application, leading to a AquaLogic Data Services Platform deployment failure.
<b>Platform</b>	All.
<b>Workaround</b>	A software patch is available at:  <pre>&lt;weblogic_home&gt;/liquiddata/platform_patches/81SP4/CR233032</pre> Alternatively, performing a Clean operation before a project Build automatically repairs the file:  <pre>weblogic-application.xml</pre>
<b>CR267820</b>	<b>Metadata synchronization update preview displays “Problem in parsing XML fragment” error.</b>
<b>Description</b>	If your project contains Java function signatures referring to XMLBeans, then erroneous results may be reported when doing a metadata update.
<b>Platform</b>	All.
<b>Workaround</b>	Delete the <code>&lt;project.jar&gt;</code> file in your application’s library folder that was created when you last built your project. Then synchronize and rebuild.
<b>CR264597</b>	<b>String comparison operations involving MS-SQL may return incorrect results when the comparison operation is computed by MS-SQL.</b>
<b>Description</b>	See <a href="#">“CR264597 Details.”</a>
<b>Platform</b>	All.
<b>Workaround</b>	See <a href="#">“CR264597 Details.”</a>
<b>CR253530</b>	<b>When importing AquaLogic Data Services Platform projects into Workshop if the option Copy into Application Directory is not selected, importing a project not already located in the application results in ‘resource not found’ errors.</b>
<b>Description</b>	AquaLogic Data Services Platform requires that projects be contained in the application folder. This is handled automatically if the Copy into Application Directory option in Workshop is selected.

**Table 10 Known Product Limitations and Possible Workarounds**

<b>Topic</b>	<b>Details</b>
<b>Platform</b>	All.
<b>Workaround</b>	Select the Copy into Application Directory option when importing AquaLogic Data Services Platform Console projects.
<b>CR204243</b>	<b>When casting xs:decimal from an xs:integer or xs:long, resulting values may not be precisely correct.</b>
<b>Description</b>	As above.
<b>Platform</b>	All.
<b>Workaround</b>	To avoid the possibility of an incorrect result use a string literal instead of an xs:integer literal. For example instead of:  <pre>xs:decimal ( 9223372036854775807 )</pre> use:  <pre>xs:decimal ( "9223372036854775807" )</pre>
<b>CR260587</b>	<b>An exception during an SDO update operation can occur if the order of elements in the client diffgram is changed and the Validate option is active.</b>
<b>Description</b>	Sometimes the order of elements in a diffgram changes, potentially leading to datagraph validation failure.
<b>Platform</b>	All, using ADO.NET clients.
<b>Workaround</b>	If possible, turn off validation for the operation.
<b>CR268183</b>	<b>Workshop removes a necessary line when editing an AquaLogic Data Services Platform Control-generated JWS file.</b>

**Table 10 Known Product Limitations and Possible Workarounds**

<b>Topic</b>	<b>Details</b>
<b>Description</b>	<p>After creating a AquaLogic Data Services Platform control it may be necessary to edit the generated JWS file. For example, in the case of enabling Web service security, the user may need to modify the JWS property that specifies a Web service security file.</p> <p>If the JWS is edited in Workshop, a line in the header beginning:</p> <pre>* @editor-info:link autogen-style ...</pre> <p>is automatically removed. This line is needed in order to generate ADO.NET-enabled WSDL files.</p> <p><b>Note:</b> This problem also affects the Excel Add-in.</p>
<b>Platform</b>	All.
<b>Workaround</b>	<p>Before editing a generated JWS file in Workshop open the file in a text editor and copy the line beginning:</p> <pre>* @editor-info:link autogen-style ...</pre> <p>Then, when editing the file in Workshop, restore the above line to the JWS file.</p>
<b>CR245418</b>	<b>SDO does not support periods [ . ] in element names and schema paths.</b>
<b>Description</b>	<p>SDO is dependent on XPath which supports indexing from 0. For example, SDO's Customer.0 equals XPath's Customer[1]. Since periods are already used for this type of notation, they cannot appear in element names.</p> <p>A more general statement of the problem is that SDO does not support periods in schema paths, including leaf elements.</p>
<b>Platform</b>	All.
<b>Workaround</b>	Avoid using periods in element names and schema paths.
<b>CR265706</b>	<b>When no values are passed during an insert operation, the generated query contains a null, which can lead to an exception on the database side.</b>

**Table 10 Known Product Limitations and Possible Workarounds**

<b>Topic</b>	<b>Details</b>
<b>Description</b>	<p>Default values for SDO properties are always null. When no values are passed during an insert operation, the generated SQL insert contains a null. This can lead to an exception of the following form on the database side:</p> <pre>java.sql.SQLException: ORA-01400: cannot insert NULL into ("COMMON"."CASE"."CREATE_USERNM")</pre> <p>The reason this exception occurs is that when metadata is created for database tables, the default value of the database setting is not captured in SDO. So, for example, if the value of the column is “not null” in the database and the SDO datagraph passed a null value to the database, the exception will occur.</p>
<b>Platform</b>	All.
<b>Workaround</b>	Default values should be set in the SDO client.
<b>CR265950</b>	<b>End-point name changes do not take effect for operations in document style Web services.</b>
<b>Description</b>	Document style Web services use input (call parameter) types to determine the Web service operation being invoked. The operation name is not included in the SOAP request. For this reason, overwriting the operation name as part of an end point change does not work for document style Web services.
<b>Platform</b>	All.
<b>Workaround</b>	None.
<b>CR259356</b>	<b>Obscure error message when changing Web service end-point settings if an incorrect operation name is used.</b>
<b>Description</b>	<p>The following message:</p> <pre>"javax.xml.rpc.JAXRPCException: Unable to find operation 'null' in port 'AVP2Port'. Please check the WSDL"</pre> <p>most likely means that an invalid operation name has been selected.</p>
<b>Platform</b>	All.
<b>Workaround</b>	Find correct operation name and change end-point settings accordingly.
<b>CR258884</b>	<b>Security decisions are not audited.</b>

**Table 10 Known Product Limitations and Possible Workarounds**

<b>Topic</b>	<b>Details</b>
<b>Description</b>	XQuery functions supporting security are not tracked by the audit framework.
<b>Platform</b>	All.
<b>Workaround</b>	None.
<b>CR257878</b>	<b>Use of Java keywords in schema elements and namespaces may cause name conflicts.</b>
<b>Description</b>	Schema elements and namespaces are converted into Java classes and packages as part of schema compilation process. This creates the potential for name conflicts with Java keywords and constructs.
<b>Platform</b>	All.
<b>Workaround</b>	Avoid as necessary using syntax which the JVM might recognize as a reserved word or construct.
<b>CR256214</b>	<b>Some DBMS systems may not properly handle “pushed down” constants.</b>
<b>Description</b>	<p>SQL statements sent to base (not specifically supported) database platforms use a “best guess” as to the syntax for string literal. Such formulations may not work in all cases.</p> <p>An example of this is MySQL which requires every backslash [ \ ] to be escaped with another backslash.</p> <p>Such cases are not handled by SQL generation code and might result in invalid SQL being generated.</p>
<b>Platform</b>	Database platforms for which only generic support is provided.
<b>Workaround</b>	<p>There are two possible workarounds for this problem:</p> <ul style="list-style-type: none"> <li>• Convert constants to parameters by using an external variable instead of a constant. For example:  <pre>where \$customer_id eq fn-bea:fence("CUSTOMER001")</pre> </li> <li>• Properly escape the XQuery string literal according to the rules of the underlying database.</li> </ul>
<b>CR253085</b>	<b>Invalid SQL syntax generated for MS Access when fn:lower-case() or fn:upper-case() is used.</b>

**Table 10 Known Product Limitations and Possible Workarounds**

Topic	Details
<b>Description</b>	<p>SQL generation for <code>fn:lower-case()</code> and <code>fn:upper-case()</code> functions produces SQL statements that fail to execute against MS Access database.</p> <p><code>fn:lower-case()</code> is translated into <code>LOWER()</code> and <code>fn:upper-case()</code> into <code>UPPER()</code>. The problem is that MS Access doesn't support these functions (<code>LOWER()</code> and <code>UPPER()</code>), hence such generated SQL statements cannot be executed.</p> <p>Example:</p> <pre>for \$i in CUSTOMER() where lower-case(data(\$i/FIRST_NAME)) eq "john" return \$i/CUSTOMER_ID</pre> <p>is translated into:</p> <pre>SELECT t1."CUSTOMER_ID" AS c1 FROM "CUSTOMER" t1 WHERE LOWER(t1."FIRST_NAME") = 'john'</pre>
<b>Platform</b>	All running MS-Access.
<b>Workaround</b>	<p>Apply <code>fn-bea:fence()</code> to the parameter of an <code>fn:lower-case()</code> or <code>fn:upper-case()</code> function to block SQL pushdown and force evaluation in the engine.</p> <p>Example:</p> <pre>for \$i in CUSTOMER() where lower-case(fn-bea:fence(data(\$i/FIRST_NAME))) eq "john" return \$i/CUSTOMER_ID</pre> <p>is translated into:</p> <pre>SELECT t1."CUSTOMER" AS c1, t1."FIRST_NAME" FROM "CUSTOMER" t1</pre> <p>The function can then be successfully executed by MS Access.</p>
<b>CR248407</b>	<b>Metadata import wizard fails to detect in/out parameters.</b>
<b>Description</b>	In some situations associated with MSSQL and Sybase stored procedures, a resultset is returned which is not automatically detected.
<b>Platform</b>	All.



**Table 10 Known Product Limitations and Possible Workarounds**

<b>Topic</b>	<b>Details</b>
<b>Workaround</b>	First, manually build a schema that is mapped to the output of the resultset. Then, when importing metadata use the wizard, add a ROWSET and link it to the previously created schema.
<b>CR247416</b>	<b>Running a Web service derived from a Data Services Control from a remote machine yields the following exception:</b>  “Current server is the coordinator and transaction is not found.”
<b>Description</b>	Inter-domain transactions between WebLogic Server 8.1SP4 and 8.1SP5 require that a command-line be passed.
<b>Platform</b>	All.
<b>Workaround</b>	When using inter-domain transactions between 8.1 SP4 and 8.5 SP5, the following command-line argument needs to be passed to the 8.1 SP5 domain:  -Dweblogic.transaction.SecurityInteropMode=compatibility  More details on the JTA transaction can be found at: <a href="http://e-docs.bea.com/wls/docs81/ConsoleHelp/jta.html#1106135">http://e-docs.bea.com/wls/docs81/ConsoleHelp/jta.html#1106135</a>
<b>CR242938</b>	<b>Multi-dimension soap arrays are not supported in RPC mode.</b>
<b>Description</b>	The Web services wrapper provided by AquaLogic Data Services Platform only supports single-dimension arrays in RPC style Web services.
<b>Platform</b>	All.
<b>Workaround</b>	None.
<b>CR224815</b>	<b>The initial invocation of a Web service from an application server typically takes more time than subsequent calls. If the timeout value is less than the time required for the first call, the alternate expression (typically a timeout error) will be evaluated.</b>
<b>Description</b>	There is “startup overhead” the first time that a web service is invoked. The overhead can exceed the timeout threshold, leading to the specified timeout error.
<b>Platform</b>	All.

**Table 10 Known Product Limitations and Possible Workarounds**

Topic	Details
<b>Workaround</b>	When setting timeout on expressions that have a Web service invocation, set the timeout value to be greater than the measured amount of time required for the first invocation.
<b>CR239369</b>	<p><b>XQueries may generate invalid SQL for databases not supporting UPPER and LOWER (SQL-92).</b></p> <p><b>Also, empty input handling for base databases (databases not specifically support) as well as Oracle deviates from the XQuery specification when UPPER(null) or LOWER(null) is pushed down to the database level.</b></p>
<b>Description</b>	<p>There are two aspects to this problem:</p> <ol style="list-style-type: none"> <li>1. XQueries containing upper-case() or lower-case() functions are pushed down for database processing as UPPER and LOWER. Some databases may not support these SQL-92 keywords, however. In such cases the generated SQL will be invalid and upon execution will fail.</li> <li>2. Similarly, input handling by base databases (as well as Oracle databases) may not match the XQuery specification. The reason for this is that the XQuery specification requires that functions <i>return an empty string</i> if input is an empty sequence. However, when these functions are pushed down, they <i>return an empty sequence</i> instead. This happens because LOWER(NULL) is NULL in SQL.</li> </ol>
<b>Platform</b>	All platforms running base databases and Oracle databases.
<b>Workaround</b>	<p>Use the fn-bea:Fence() function to prevent pushdown of upper-case() or lower-case() functions to the database. Example:</p> <pre>lower-case(fn-bea:fence(...))</pre>
<b>CR237186</b>	<b>SDO update sequence is not preserved.</b>
<b>Description</b>	SDO update does not preserve the sequence of update objects; instead it updates in alphabetical order (example: address, credit card, customer). Since the insertion order is automatic, the update will fail unless the update elements match alphabetical order.
<b>Platform</b>	All.
<b>Workaround</b>	If the dependency order matches alphabetical order, the update will be successful.

**Table 10 Known Product Limitations and Possible Workarounds**

<b>Topic</b>	<b>Details</b>
<b>CR207637</b>	<b>An exception appears for XQuery functions accessing metadata derived from Microsoft SQL Server stored procedures containing xs:decimal.</b>
<b>Description</b>	When importing a stored procedure from Microsoft SQL Server, the BEA JDBC driver incorrectly maps SQL decimal type to schema integer (xs:int) type.
<b>Platforms</b>	All.
<b>Workaround</b>	During stored procedure import, change the data type from xs:int to xs:decimal. Alternatively, you can change the imported data service's metadata to specify the schema type for the affected column to be xs:decimal.
<b>CR203394</b>	<b>ROWTYPE input cursor is not supported when creating a data service from a stored procedure.</b>
<b>Description</b>	Stored procedure IN and INOUT cursors containing ROWIDs are not currently supported for metadata import.
<b>Platform</b>	All.
<b>Workaround</b>	Avoid importing metadata on stored procedures which required use of IN or INOUT ROWID parameters.
<b>CR221145</b>	<b>WSDLs with multiple services are not supported.</b>
<b>Description</b>	A limitation of the WebLogic Web services stack affects the ability to handle WSDL files with multiple data services.
<b>Platform</b>	All.
<b>Workaround</b>	Split WSDLs with multiple data services into multiple WSDL files each with one data service.
<b>CR214585</b>	<b>Erroneous results may occur when using fn:matches() with a regular expression containing a caret (^).</b>
<b>Description</b>	The match beginning-of-line operator (^) in regular expressions produces erroneous results when used with fn:matches().
<b>Platform</b>	All.
<b>Workaround</b>	None available.

**Table 10 Known Product Limitations and Possible Workarounds**

<b>Topic</b>	<b>Details</b>
<b>CR215251</b>	<b>Identifiers within two characters of the maximum length allowed by the DBMS may result in an error.</b>
<b>Description</b>	Some DBMS systems place limits on the length of identifiers (30 in the case of Sybase). AquaLogic Data Services Platform places single quotes around queries being pushed to the database, effectively reducing the maximum identifier length by two characters (28 in the case of Sybase).
<b>Platform</b>	All platforms running Sybase (and possibly other) databases.
<b>Workaround</b>	Possible options include renaming the table or creating a view with a shorter name.
<b>CR203174</b>	<b>Some data sources may not appear when importing metadata.</b>
<b>Description</b>	Functionality to manage JDBC data sources and connection pools during metadata import is limited to the same level of functionality provided by BEA Workshop (Tools → WebLogic Server → DataSource Viewer).
<b>Platform</b>	All.
<b>Workaround</b>	For full functionality use the WebLogic Administration Console to manage JDBC data sources and connection pools.
<b>CR209659</b>	<b>SOAP 1.2 for Web services runtime is not supported.</b>
<b>Description</b>	SOAP 1.2-based Web services are not supported.
<b>Platform</b>	All.
<b>Workaround</b>	Where possible use a supported SOAP version.
<b>CR222822</b>	<b>Linux applications built in Workshop may fail with the message "Error creating temporary file".</b>
<b>Description</b>	While building an application inside Workshop on Linux, you may get an "Error creating temporary file" message when 1) the application includes a large number of schema files, and 2) the Platform Installation is under a different user's name than the user running Workshop.
<b>Platform</b>	Linux.

**Table 10 Known Product Limitations and Possible Workarounds**

Topic	Details
<b>Workaround</b>	Ensure that the Workshop instance is running under the same name as was used for Platform installation.
<b>CR226019</b>	<b>Access control policies associated with a data service function may disappear if the function's number of parameters is changed.</b>
<b>Description</b>	A data service function's signature is its QName and the number of parameters (arity) of the function. If you set security policies on a function and then change the number of parameters to the function, the function is treated as new and any previously set policies will no longer be in effect.
<b>Platform</b>	All.
<b>Workaround</b>	If a function's arity is changed, reapply security policies to that function.
<b>CR227486</b>	<b>The BEA JDBC XA driver for DB2 returns the error XAER_RMERR when a local transaction read is followed by a global transaction read.</b>
<b>Description</b>	Pertains to a known JDBC driver problem described in BEA CR229071.
<b>Platform</b>	All.
<b>Workaround</b>	For the 3.4 JDBC driver, set the driver property to: <code>AllowImplicitResultSetCloseForXA=false</code>
<b>CR229758</b>	<b>AquaLogic Data Services Platform Web service generation may fail to compile if the original Web service was created in Workshop.</b>
<b>Description</b>	If you have a data service created from a Workshop-originated Web service and then, subsequently, you turn your data service into a Web service via a AquaLogic Data Services Platform control, the project build will fail due to a duplicate schema element error.
<b>Platform</b>	All.
<b>Workaround</b>	See <a href="#">CR229758 Details</a> .
<b>CR213916</b>	<b>BEA Informix JDBC driver does not return nullability information.</b>

**Table 10 Known Product Limitations and Possible Workarounds**

<b>Topic</b>	<b>Details</b>
<b>Description</b>	The BEA Informix driver does not return information about table column nullability (that is, it is marked as unknown). During metadata import the minOccurs of the elements corresponding to the columns in the generated XML schemas is set to 0.
<b>Platform</b>	All platforms running Informix.
<b>Workaround</b>	Modify the imported metadata files by changing the minOccurs value for the nullable columns from 0 to 1.
<b>CR214983, CR211701, CR201821</b>	<b>MSSQL VARIANT datatype has only limited support.</b>
<b>Description</b>	There are two limitations with this MSSQL VARIANT data type (sql_variant): <ol style="list-style-type: none"> <li>1. For SQL_VARIANT data type update will fail.</li> <li>2. You cannot read a null value for the SQL_VARIANT data type.</li> </ol>
<b>Platform</b>	All.
<b>Workaround</b>	None available.
<b>CR221015</b>	<b>During metadata import the BEA Sybase JDBC driver may not display all tables to which user has authorized access.</b>
<b>Description</b>	During metadata import the BEA Sybase JDBC driver may not show all tables which have been granted access to the user.
<b>Platform</b>	All platforms accessing Sybase through the BEA Sybase JDBC driver.
<b>Workaround</b>	This is a BEA Sybase driver limitation. For the import purpose, you can change to <code>dbo user</code> to see the full complement of available tables.
<b>CR202963</b>	<b>When using BEA Oracle JDBC driver with a TIMESTAMP values, stored procedures are truncated.</b>
<b>Description</b>	When using the BEA's Oracle JDBC driver, if a stored procedure returns a TIMESTAMP value then the value gets truncated at the milliseconds level. For example, if the value was 1997-01-31 09:26:50.124 then the stored procedure will return a 1997-01-31 09:26:50.0 value.
<b>Platforms</b>	All platforms running Oracle with the BEA Oracle JDBC driver.

**Table 10 Known Product Limitations and Possible Workarounds**

<b>Topic</b>	<b>Details</b>
<b>Workaround</b>	Use the Oracle JDBC driver stored procedures that returning <code>TIMESTAMP</code> values.
<b>CR223429, CR228802</b>	<b>Sybase JDBC driver does not support a <code>getBlob()</code> call.</b>
<b>Description</b>	The AquaLogic Data Services Platform cache configuration does not work if using Sybase JDBC driver because the configuration implementation uses a <code>getBlob()</code> call on the JDBC driver. The Sybase JDBC driver does not support <code>getBlob()</code> .
<b>Platforms</b>	All platforms running Sybase with the Sybase JDBC driver.
<b>Workaround</b>	Use the BEA JDBC driver for Sybase databases when utilizing Sybase as the AquaLogic Data Services Platform cache data source.
<b>CR214730</b>	<b>SQL Server JDBC driver incorrectly renders the <code>tinyint</code> maximum value.</b>
<b>Description</b>	The SQL Server <code>tinyint</code> maximum value of 255 gets interpreted as -1 by the Microsoft SQL Server JDBC driver.
<b>Platforms</b>	All platforms running SQL Server with the SQL Server JDBC driver.
<b>Workaround</b>	Use the BEA JDBC driver for SQL Server.
<b>CR223486, CR226239, CR226171</b>	<b>The Informix JDBC driver does not support standard JDBC syntax for specifying <code>TIMESTAMP</code> values.</b>
<b>Description</b>	The Informix native driver doesn't support standard JDBC syntax for specifying <code>TIMESTAMP</code> values. For example: 1979-03-01 00:00:00.0 is not supported.
<b>Platforms</b>	All platforms running Informix with the Informix JDBC driver.
<b>Workaround</b>	Use the BEA JDBC driver for Informix.
<b>CR199675</b>	<b>The BEA JDBC driver for Oracle does not support <code>UROWID</code> column type for data retrieval.</b>
<b>Description</b>	When using BEA JDBC driver for Oracle, retrieving <code>UROWID</code> returns an error, identified by the following message: <p style="text-align: center;">[BEA][Oracle JDBC Driver]Internal error: Net8 protocol error</p>

**Table 10 Known Product Limitations and Possible Workarounds**

<b>Topic</b>	<b>Details</b>
<b>Platforms</b>	All platforms running Oracle with the BEA JDBC driver.
<b>Workaround</b>	Use the Oracle JDBC driver if your data contains UROWID column type.
<b>CR212515</b>	<b>The Oracle stored procedure returning PL/SQL RECORD, BOOLEAN, or table with non-scalar element types is not supported.</b>
<b>Description</b>	Oracle stored procedure limitations are detailed in the following currently-available document: <a href="http://www.stanford.edu/dept/itss/docs/oracle/9i/java.920/a96654/ref.htm#1007714">http://www.stanford.edu/dept/itss/docs/oracle/9i/java.920/a96654/ref.htm#1007714</a>
<b>Platforms</b>	All platforms using Oracle.
<b>Workaround</b>	None available
<b>CR202041</b>	<b>Metadata for SQL Server stored procedures returning CURSOR output cannot be created.</b>
<b>Description</b>	When importing metadata from SQL Server, stored procedures that return CURSOR output are not supported.
<b>Platforms</b>	All platforms using SQL Server.
<b>Workaround</b>	Modify the imported data service file to identify the correct data type for the cursor.
<b>CR227440</b>	<b>Metadata for DB2 stored procedures returning CLOB data cannot be created.</b>
<b>Description</b>	When importing metadata from DB2, stored procedures returning CLOB data are not supported.
<b>Platforms</b>	All platforms using DB2.
<b>Workaround</b>	None available.
<b>CR265965</b>	<b>Updating or deleting Oracle's CHAR/NCHAR with trailing blanks failed with an Optimistic locking failure message using Oracle JDBC driver.</b>
<b>Description</b>	With Oracle's non-XA JDBC driver, CHAR and NCHAR columns can only be updated if the number of characters is 1024 or less.



**Table 10 Known Product Limitations and Possible Workarounds**

Topic	Details
<b>Platform</b>	All using Oracle's non-XA JDBC driver.
<b>Workaround</b>	Where possible use BEA's Oracle JDBC driver (Type 4).
<b>CR202962</b>	<b>Oracle stored procedures containing CHAR or NCHAR as input may cause a Server error.</b>
<b>Platform</b>	All.
<b>Description</b>	If you have Oracle stored procedures that use an INOUT parameter, you may get an error when you run a stored procedure using AquaLogic Data Services Platform. The error appears as:  <pre>java.lang.RuntimeException: ORA-01460: unimplemented or unreasonable conversion requested ORA-06512: at "WIRELESS.SP_CHAR", line 17</pre>
<b>Workaround</b>	Modify your stored procedure call by reducing the size of the INOUT parameter using TRIM. See <a href="#">Sample code related to CR202962</a> , in <a href="#">Listing 1</a> .

## Supplemental Release Note Documentation

This section contains code and other additional information related to previously described release notes.

### CR229758 Details

#### Summary

AquaLogic Data Services Platform Web service generation may fail to compile if the original Web service was created in Workshop.

#### Scenario and Workaround

Assume that you have a Workshop-generated Web service named `getCustomerOrderByCustomerID`. A WSDL for this Web service with default targetnamespace would create the following schema elements:

```
{http://www.openuri.org/}getCustomerOrderByCustomerID
```

and

```
{http://www.openuri.org/}getCustomerOrderByCustomerIDResponse
```

When you import this WSDL, the same schema elements will be in the imported schema file and will be associated with the data service read function. When you build a Data Service control for this read function and generate a Web service from that control, a Web service function is created:

```
org.openuri.GetCustomerOrderByCustomerIDResponseDocument  
getCustomerOrderByCustomerID(org.openuri.GetCustomerOrderByCustomerIDDo  
cument p0)
```

When compiling this Web service file, WebLogic Workshop now generates two identical schema elements each:

```
{http://www.openuri.org/}getCustomerOrderByCustomerID
```

and

```
{http://www.openuri.org/}getCustomerOrderByCustomerIDResponse
```

If user had modified either the target namespace of this final JWS or changed the function name to a different one such as:

```
org.openuri.GetCustomerOrderByCustomerIDResponseDocument  
getCustomerOrderByCustomerIDNEW(org.openuri.GetCustomerOrderByCustomerI  
DDocument p0)
```

Then the types generated will be as follows:

- {http://www.openuri.org/}getCustomerOrderByCustomerID
- {http://www.openuri.org/}getCustomerOrderByCustomerIDResponse

and

- {http://www.openuri.org/}getCustomerOrderByCustomerIDNEW
- {http://www.openuri.org/}getCustomerOrderByCustomerIDNEWResponse

Thus the schema clash would be avoided.

## CR264597 Details

### Summary

String comparison operations involving MSSQL may return incorrect results when the comparison operation is computed by MSSQL.

### Description

Depending on the database and server configuration, MSSQL Server may use case-insensitive collation for string comparison operations (this is the default configuration).

When generating SQL the AquaLogic Data Services Platform does not take database string collation into account. This can lead to different results being produced by expressions that were “pushed down” to a MSSQL database, as compared to their evaluation by the XQuery engine.

The following types of expressions are affected:

- string comparison operations
- string functions: `fn:contains()`, `starts-with()`, `ends-with()`
- order by clauses
- group by clauses.

For example, consider the following two-row, two-column table based on:

```
CUSTOMER (ID, FIRST_NAME)
```

ID	FIRST_NAME
1	John
2	john

The following XQuery might return different results depending whether it is evaluated by the database or not.

```
for $c in CUSTOMER()
where $c/FIRST_NAME eq "john"
return $c/ID
```

According to the XQuery semantics the query should return:

```
<ID>2</ID>
```

as only the second record matches the selection criteria.

However, when AquaLogic Data Services Platform pushes the query to the underlying MSSQL database the following SQL is generated:

```
SELECT t1."C_ID" AS c1
FROM "CUSTOMER" t1
WHERE t1."FIRST_NAME" = "john"
```

This might result in both records being returned by the MSSQL database (with case-insensitive string collation set):

```
<ID>1</ID>  
<ID>2</ID>
```

## Workaround

There are several workarounds to conforming with XQuery semantics for string comparisons when pushing computations down to MSSQL.

### Option 1

Consider changing the collation setting that the database uses for string comparisons. See "SQL Server Collation Fundamentals" document located as of this writing at:

[http://msdn.microsoft.com/library/default.asp?url=/library/en-us/architec/8\\_ar\\_da\\_1pwz.asp](http://msdn.microsoft.com/library/default.asp?url=/library/en-us/architec/8_ar_da_1pwz.asp)

Collation can change on a server, database or column level basis.

### Option 2

Use the `fn-bea:fence()` function to block pushdown. In the above example, this would be rendered as:

```
for $c in CUSTOMER()  
where fn-bea:fence(data($c/FIRST_NAME)) eq "john"  
return $c/ID
```

Notice, however, that this approach may negatively impact performance since the AquaLogic Data Services Platform engine now must fetch and process the entire table.

To optimize performance, consider replicating comparison operation and pushing down one copy to be evaluated by the database while keeping the second copy on the AquaLogic Data Services Platform engine. The following query illustrates such an approach:

```
for $c in CUSTOMER()  
where $c/FIRST_NAME eq "john"  
where fn-bea:fence(data($c/FIRST_NAME)) eq "john"  
return $c/ID
```

This query first limits the number of results that the XQuery engine must process and then applies the second selection to obtain the correct XQuery semantics.

## CR202962 Listing

[Listing 1](#) contains sample code for CR202962.

**Listing 1 Sample code related to CR202962**

---

```

CREATE OR REPLACE PROCEDURE WIRELESS.SP_CHAR
(P_CHAR_IN IN CHAR,
P_CHAR_OUT OUT CHAR,
P_CHAR_INOUT IN OUT CHAR,
P_ID_OUT OUT VARCHAR2 )
IS
TEMP VARCHAR2(10);
BEGIN
SELECT C_ID INTO P_ID_OUT
FROM WIRELESS.ALL_DATATYPES
WHERE C_CHAR = P_CHAR_IN;

SELECT C_CHAR INTO P_CHAR_OUT
FROM WIRELESS.ALL_DATATYPES
WHERE C_ID = '2';

SELECT C_ID INTO TEMP
FROM WIRELESS.ALL_DATATYPES
WHERE C_CHAR = P_CHAR_INOUT;

SELECT 'WORK' INTO P_CHAR_INOUT
FROM WIRELESS.ALL_DATATYPES
WHERE C_ID = TEMP;
END;
/

```

to adjust the size of PCHAR\_INOUT using TRIM (see highlighted code)

```

CREATE OR REPLACE PROCEDURE WIRELESS.SP_CHAR
(P_CHAR_IN IN CHAR,
P_CHAR_OUT OUT CHAR,
P_CHAR_INOUT IN OUT CHAR,
P_ID_OUT OUT VARCHAR2 )
IS
TEMP VARCHAR2(10);
ACHAR CHAR(500);

BEGIN
ACHAR := trim(P_CHAR_INOUT);

SELECT C_ID INTO P_ID_OUT
FROM WIRELESS.ALL_DATATYPES
WHERE C_CHAR = P_CHAR_IN;

SELECT C_CHAR INTO P_CHAR_OUT
FROM WIRELESS.ALL_DATATYPES
WHERE C_ID = '2';

```

```

SELECT C_ID INTO TEMP
FROM WIRELESS.ALL_DATATYPES
WHERE C_CHAR = ACHAR; // used to fail here

SELECT 'WORK' INTO P_CHAR_INOUT
FROM WIRELESS.ALL_DATATYPES
WHERE C_ID = TEMP;

END;
/

```

---

## CR288104 Details

Here is the Java Web service schema generated under WebLogic 9.2, following by the same schema generated under WebLogic 8.1:

First is shown the generated Web service schema under WebLogic 9.2. Notice that the schema is fully namespace qualified:

```

<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns="http://a/b/c/d/e";
xmlns:m1="ld:DataServices/CustomerDB/CUSTOMER">
  <soapenv:Body>
    <hello>
      <m1:CUSTOMER>
        <m1:CUSTOMER_ID>s</m1:CUSTOMER_ID>
        <m1:FIRST_NAME>s</m1:FIRST_NAME>
        <m1:LAST_NAME>s</m1:LAST_NAME>
        <m1:CUSTOMER_SINCE>2001-01-01</m1:CUSTOMER_SINCE>
        <m1:EMAIL_ADDRESS>s</m1:EMAIL_ADDRESS>
        <m1:TELEPHONE_NUMBER>s</m1:TELEPHONE_NUMBER>
        <m1:SSN>s</m1:SSN>
        <m1:BIRTH_DAY>2001-01-01</m1:BIRTH_DAY>
        <m1:DEFAULT_SHIP_METHOD>s</m1:DEFAULT_SHIP_METHOD>
        <m1:EMAIL_NOTIFICATION>1</m1:EMAIL_NOTIFICATION>
        <m1:NEWS_LETTTER>1</m1:NEWS_LETTTER>
        <m1:ONLINE_STATEMENT>1</m1:ONLINE_STATEMENT>
        <m1:LOGIN_ID>s</m1:LOGIN_ID>
      </m1:CUSTOMER>
    </hello>
  </soapenv:Body>
</soapenv:Envelope>

```

Here is the generated Web service schema under WebLogic 8.1:

```

<getADDRESS xmlns="http://www.openuri.org/"
xmlns:cus="ld:DataServices/CustomerDB/CUSTOMER">

```

```

<cus:CUSTOMER>
  <CUSTOMER_ID xmlns="">string</CUSTOMER_ID>
  <FIRST_NAME xmlns="">string</FIRST_NAME>
  <LAST_NAME xmlns="">string</LAST_NAME>
  <CUSTOMER_SINCE xmlns="">2008-09-29</CUSTOMER_SINCE>
  <EMAIL_ADDRESS xmlns="">string</EMAIL_ADDRESS>
  <TELEPHONE_NUMBER xmlns="">string</TELEPHONE_NUMBER>
  <!--Optional:-->
  <SSN xmlns="">string</SSN>
  <!--Optional:-->
  <BIRTH_DAY xmlns="">2014-09-19</BIRTH_DAY>
  <!--Optional:-->
  <DEFAULT_SHIP_METHOD xmlns="">string</DEFAULT_SHIP_METHOD>
  <!--Optional:-->
  <EMAIL_NOTIFICATION xmlns="">1</EMAIL_NOTIFICATION>
  <!--Optional:-->
  <NEWS_LETTTER xmlns="">1</NEWS_LETTTER>
  <!--Optional:-->
  <ONLINE_STATEMENT xmlns="">1</ONLINE_STATEMENT>
  <!--Optional:-->
  <LOGIN_ID xmlns="">string</LOGIN_ID>
</cus:CUSTOMER>
</getADDRESS>

```

## References

The most up-to-date product documentation is available from the BEA edocs documentation Web site at the following location:

<http://edocs.bea.com/al dsp/docs25/index.html>

To access the AquaLogic Data Services Platform documentation home page in a Web browser:

1. Click the PDF files button.
2. Select the document that you want to view or print.

Alternatively, from within a HTML document, click the View as PDF link on the top navigation bar to open a PDF version of the currently displayed document.

Information about BEA products including AquaLogic Data Services Platform can be found at:

<http://dev2dev.bea.com>

Documentation for all BEA products in both PDF and HTML format can be found at:

<http://edocs.bea.com>

If you do not have Adobe Acrobat Reader, you can obtain it from the Adobe Web site at:

<http://www.adobe.com>

## Sample Domain

Samples, examples, sample tutorials, and the RTLApp sample application are designed to be run on the ldplatform domain, located at:

`<weblogic81>/samples/domains`

The ldplatform domain contains the data necessary for these samples to be developed and run.