BEA Products

Supported Configurations for AquaLogic Data Services Platform 3.2

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CHAPTER 1

BEA ALDSP 3.2

This section provides the following information:

- Related Information
- Configuration Requirements
- Known Issues
- Download and Install Instructions

Related Information

For detailed information, see BEA AquaLogic Data Services Platform™ 3.2.

Configuration Requirements

The following section describes the configuration requirements for this release:

- Supported Application Servers
- Supported Operating Systems and Hardware
- Supported JDK Versions
- IDE Support
- Supported Relational Database Management Systems
- Browser Support

- Additional Product Support Information

Supported Application Servers

This release supports WebLogic Server 10.0 MP1.

AquaLogic Data Services Platform generally supports the same platforms, operating systems, processor architecture, SDKs, and RDBMS systems as the supported WebLogic Platform 10.0 release, as described under "Supported Operating Systems and Hardware."

Supported Operating Systems and Hardware

The following table lists operating systems and hardware that are supported for this release.

Table 1-1 Supported Operating Systems and Hardware for ALDSP 3.2

Vendor and Operating System	Hardware	IDE Support
HP-UX 11i V1	RISC	No
HP-UX 11i V2	• RISC • Itanium	No
HP-UX 11i V3	Itanium	No
IBM AIX 5.2	• POWER4 (1.5 GHz) • POWER5 (1.5 GHz)	No
IBM AIX 5.3	• POWER4 (1.5 GHz) • POWER5 (1.5 GHz)	No
Microsoft Windows 2000 Server, Advanced Server, Datacenter Microsoft Windows 2000 Professional	x86	Yes. See IDE Support.
Microsoft Windows Server 2003 Standard, Enterprise, Datacenter	x86	Yes. See IDE Support.
	Itanium	No
Microsoft Windows XP SP2	x86	Yes. See IDE Support.

Table 1-1 Supported Operating Systems and Hardware for ALDSP 3.2

Novell SUSE Linux Enterprise Server (SLES) 9 SP3	x86	No
	• 64-bit Xeon (Using JRockit 32-bit JDK) • 64-bit AMD64 (Using Sun 32-bit JDK)	No
Novell SUSE Linux Enterprise Server (SLES) 10	x86	No
	• 64-bit Xeon (Using JRockit 32-bit JDK) • 64-bit AMD64 (Using Sun 32-bit JDK)	No
Red Hat Enterprise Linux 4.0 AS, ES, WS	x86	Yes. See IDE Support.
	• 64-bit Xeon • 64-bit AMD64	No
Red Hat Enterprise Linux 5.0 AS, ES, WS	x86	Yes. See IDE Support.
	• 64-bit Xeon • 64-bit AMD64	No
Sun Solaris 9	SPARC (Using Sun 32-bit JDK)	No
	x86	No
Sun Solaris 10	SPARC (Using Sun 32-bit JDK)	No
	x86	No
	AMD64 (Using Sun 32-bit JDK)	No

BEA provides full support for these operating system and hardware configurations only. We are continuously working to provide support for more configurations. Please contact your sales representative for information about configurations not listed in this table.

Supported JDK Versions

ALDSP 3.2 JDK support is dependent on the supported WebLogic Server 10.0 MP1 JDK for each vendor and operating system listed in Table 1-1.

To view the supported JDK for your environment:

1. Click the link for your vendor and operating system in Table 1-1.
2. Select the requirements link for the hardware appropriate for your environment in the Configuration Requirements section of the *WebLogic Server 10.0 Supported Configurations* document.
3. Review the information in the JDK row of the certification table.

Note: BEA does not support the Azul Virtual Machine for ALDSP 3.2.

IDE Support

The ALDSP IDE requires Eclipse 3.2.2 and Eclipse WTP 1.5.4. If you do not have Eclipse 3.2.2 and WTP 1.5.4 in your environment, select these plug-ins from the appropriate panel of the installer.

Supported 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. ALDSP provides the following levels of RDBMS support:

Table 1-2 Levels of RDBMS Support

Support Level	Description
Extended	Support is provided for tables, stored procedures, vendor caching, and some database functions.
Generic	Support only for basic SQL read and write calls if the database supports JDBC standards.

- Support for Databases
- Support for Oracle RAC

Support for Databases

The following tables list the types of databases and drivers supported in this release of ALDSP:.

Table 1-3 Database Support for ALDSP

Database Type	JDBC Driver	Level of RDBMS Support	Notes
DB2 8.2 FixPak2 (equivalent to 8.1 FixPak 9) and later FixPaks	• BEA WebLogic Type 4 JDBC DB2 Driver • BEA WebLogic Type 4 XA JDBC DB2 Driver	Extended	
Informix IDS with Universal Data Option (9.2 and above)	• BEA WebLogic Type 4 JDBC SQL Server Driver • BEA WebLogic Type 4 XA JDBC SQL Server Driver • Native Non-XA • Native XA	Generic	
Informix IDS 9.3	• BEA WebLogic Type 4 JDBC SQL Server Driver • BEA WebLogic Type 4 XA JDBC SQL Server Driver • Native Non-XA • Native XA	Generic	
Informix IDS 9.4	• BEA WebLogic Type 4 JDBC SQL Server Driver • BEA WebLogic Type 4 XA JDBC SQL Server Driver • Native Non-XA • Native XA	Generic	

Table 1-3 Database Support for ALDSP

Microsoft Access 2000	• Native Non-XA • Native XA	Generic	Access 2000 is supported only on Microsoft operating systems.
Microsof SQL Server 7	• BEA WebLogic Type 4 JDBC SQL Server Driver • BEA WebLogic Type 4 XA JDBC SQL Server Driver	Extended	SQL Server 2000 is supported only on Microsoft operating systems.
Microsoft SQL Server 2000 SP3+	• BEA WebLogic Type 4 JDBC SQL Server Driver • BEA WebLogic Type 4 XA JDBC SQL Server Driver	Extended	SQL Server 2000 is supported only on Microsoft operating systems.
Microsoft SQL Server 2005	• BEA WebLogic Type 4 JDBC SQL Server Driver • BEA WebLogic Type 4 XA JDBC SQL Server Driver	Extended	SQL Server 2005 is supported only on Microsoft operating systems.
MySQL 4.1.14	Connect/J	Generic	
MySQL 5	Connect/J	Generic	
PointBase 5.1[1]	PointBase Type 4 Driver	Extended	• ALDSP does not support PointBase for production server deployments. • BEA evaluation license limits the size of the PointBase database to 30MB. • Vendor caching is not supported

Table 1-3 Database Support for ALDSP

Oracle 9.2.0.4 and later patch sets of 9.2.x	• BEA WebLogic Type 4 JDBC Oracle Driver • BEA WebLogic Type 4 XA JDBC Oracle Driver • Oracle Thin Driver 10g • Oracle Thin/XA Driver 10g	Extended	
Oracle 10g R1 (Oracle 10.1.0.4 and later patch sets of 10.1.x)	• Oracle Thin Driver 10g • Oracle Thin/XA Driver 10g	Extended	
Oracle 10g R2 (Oracle 10.2.0.1 and later patch sets of 10.2.x)	• Oracle Thin Driver 10g • Oracle Thin/XA Driver 10g	Extended	
Sybase 12.5.03 and later patch levels of 12.5.x	• BEA WebLogic Type 4 JDBC Sybase Driver • BEA WebLogic Type 4 XA JDBC Sybase Driver • Sybase non-XA • Sybase XA	Extended	
Sybase 12.5.03 and releases prior to 12.5.03	• BEA WebLogic Type 4 JDBC Sybase Driver • BEA WebLogic Type 4 XA JDBC Sybase Driver • Sybase non-XA • Sybase XA	Generic	Supports vendor caching.

1. PointBase Server is an all-Java DBMS product included in the WebLogic Server distribution solely for evaluation purposes, either in the form of custom trial applications or through packaged sample applications provided with WebLogic Server. Non-evaluation development or other use of the PointBase Server requires that a separate PointBase Server license be obtained by the end user directly from DataMirror.

Support for Oracle RAC

Automatic database connection failover and load balancing with global transactions (XA) in a highly-available (HA) DBMS architecture is supported with the following Oracle RAC versions and drivers:

Table 1-4 Oralce RAC Support for ALDSP Features

Database Type	JDBC Driver	Level of RDBMS Support
Oracle9i RAC (for Oracle 9.2.0.4 and later patch sets of 9.2.x.x)	• Oracle Thin Driver 10g • Oracle Thin/XA Driver 10g	Extended
Oracle 10g R1 RAC (for Oracle 10.1.0.4 and later patch sets of 10.1.x)	• Oracle Thin Driver 10g • Oracle Thin/XA Driver 10g	Extended
Oracle 10g R2 RAC (for Oracle 10.2.0.1 and later patch sets of 10.2.x)	• Oracle Thin Driver 10g • Oracle Thin/XA Driver 10g	Extended

Browser Support

The following sections provide information on browser support:

- Accessing End-User Applications
- Accessing ALDSP Using a Web Browser

Accessing End-User Applications

In general, ALDSP supports the use of any browser to enable end-user access to applications with the following restrictions:

- You must follow best practices when implementing features targeted for use with the browser you choose to support

- Use of applets for end-user access to applications is more restricted. See Browser Support for Applets.

Accessing ALDSP Using a Web Browser

Note: If you use a browser version that is not listed as a supported browser in the following sections, you may experience functional or formatting problems.

Browser support for ALDSP is dependent on the browser version and the Java plug-in for applet support.

- Browser Support for the Console
- Browser Support for Applets

Browser Support for the Console

The following list summarizes browser support for the ALDSP console:

- Microsoft Internet Explorer
  - 6.0 SP1 and later service packs
  - 7.0 and later service packs
- Mozilla FireFox
  - Firefox 1.5
  - Firefox 2.0

Browser Support for Applets

The following list summarizes browser support for applets:

- Sun Java Plug-in 1.4.x
- Sun Java Plug-in 1.5.x

Additional Product Support Information

For information on how BEA supports this release of ALDSP and WebLogic Server 10.0, see:

- Product Support Information in *Release Notes for ALDSP 3.2*
- Product Support Information in *Supported Configurations for WebLogic Server 10.0*

Known Issues

Stack Overflow Issues on JRockit

You may encounter a stack overflow issue when using JRockit versions prior to BEA JRockit 5.0 (R27.3.1) JDK. The issue is resolved by using BEA JRockit 5.0 (R27.3.1) JDK and later 5.0 releases of JRockit.

java.lang.UnsupportedOperationException

This exception may be encountered due to difference in implementation of security encryption algorithm between IBM JVM and other JVMs such as Sun or Jrockit.

Modify the `$BEA_HOME/Weblogic92/common/bin/commEnv.sh` file to include the following command:

```
JAVA_OPTIONS="$JAVA_OPTIONS -Dcom.bea.dsp.security.encryption.algorithm
=PBEWithMD5AndDES"
```

Issues Related to Other BEA Products

For information about known issues with BEA products supported on this configuration, including available workarounds, see:

- Release Notes for AquaLogic Data Services Platform, Version 3.2
- WebLogic Server 10.0 Known and Resolved Issues

Download and Install Instructions

- Download and Install ALDSP 3.2 for Red Hat Enterprise Linux 4.0, 5.0 on 64-bit Xeon and AMD64
- Download and Install ALDSP 3.2 for Novell SUSE Linux Enterprise Server 9, 10 on x86
- Download and Install ALDSP 3.2 for Novell SUSE Linux Enterprise Server 9, 10 on AMD64/64-bit Xeon
- Download and Install ALDSP 3.2 for HP-UX 11i v2, v3 on Itanium
- Download and Install ALDSP 3.2 for IBM AIX 5.2/5.3
- Download and Install ALDSP 3.2 on Windows 2003 for Itanium

- Download and Install ALDSP 3.2 on Solaris 9, 10 for x86
- Download and Install ALDSP 3.2 on Solaris 10 for AMD64
- Download and Install Instructions for Other Supported Platforms

Download and Install ALDSP 3.2 for Red Hat Enterprise Linux 4.0, 5.0 on 64-bit Xeon and AMD64

Use the following steps to install ALDSP 3.2 for Red Hat Enterprise Linux 4.0, 5.0 on 64-bit Xeon and AMD64:

- Download and Install BEA JRockit 5.0
- Download and Install AquaLogic Data Services Platform 3.2 for Red Hat Enterprise Linux 4.0, 5.0 on 64-bit Xeon and AMD64

Download and Install BEA JRockit 5.0

Complete the following procedure:

1. Go to the BEA download site at http://commerce.bea.com/products/weblogicjrockit/jrockit_prod_fam.jsp.
2. Download and install the supported version of JRockit JDK for Intel 64-bit Xeon and AMD64 using the following string:

   ```
   Linux (Intel EM64T & AMD64 - 64 bit)
   ```

3. Set the `JAVA_HOME` environment variable to the directory in which JRockit is installed and export `JAVA_HOME`. For example:

   ```
   export JAVA_HOME=/opt/java5/
   ```

4. Make sure that your `PATH` variable includes `$JAVA_HOME/bin`. For example:

   ```
   export PATH=$JAVA_HOME/bin:$PATH
   ```

Download and Install AquaLogic Data Services Platform 3.2 for Red Hat Enterprise Linux 4.0, 5.0 on 64-bit Xeon and AMD64

Complete the following procedure:

1. Go to the BEA download site at `http://commerce.bea.com`.
2. Click the link for BEA AquaLogic.

3. Click the Link for BEA AquaLogic Data Services Platform.
4. From the list of OS Platforms for Aqua Logic Data Services Platform 3.2, select `Red Hat Enterprise Linux (4.0,5.0, EM64T, AMD64).`
5. Download the package installer `aldsp_320_generic.jar` file.
6. Make sure that your `PATH` variable includes `$JAVA_HOME/bin`. For example:

   ```
   export PATH=$JAVA_HOME/bin:$PATH
   ```

7. Install ALDSP 3.2 using the following command:

   ```
   java -jar aldsp_320_generic.jar
   ```

For more information on installing Aqua Logic Data Services Platform 3.2, refer to the ALDSP 3.2 Installation Guide.

Download and Install ALDSP 3.2 for Novell SUSE Linux Enterprise Server 9, 10 on x86

Complete the following procedure:

1. Go to `Oracle E-Delivery` and download ALDSP 3.2 for Linux x86.
2. Unzip the file.
3. Download the `aldsp_320_generic.jar` file.
4. Make sure that your `PATH` variable includes `$JAVA_HOME/bin`. For example:

   ```
   export PATH=$JAVA_HOME/bin:$PATH
   ```

5. Install using the following command:

   ```
   java -jar aldsp_320_generic.jar
   ```

For more information on installing Aqua Logic Data Services Platform 3.2, refer to the ALDSP 3.2 Installation Guide.

Download and Install ALDSP 3.2 for Novell SUSE Linux Enterprise Server 9, 10 on AMD64/64-bit Xeon

Complete the following procedure:

1. Download and install the supported JDK for your environment.

2. Go to Oracle E-Delivery and download ALDSP 3.2 for Linux x86-64.
3. Unzip the file.
4. Make sure that your PATH variable includes $JAVA_HOME/bin. For example:

   ```
   export PATH=$JAVA_HOME/bin:$PATH
   ```

5. Install to the same BEA installation directory you used for installing WebLogic Server 9.2 MP2 using the following command:

   ```
   java -jar aldsp_320_generic.jar
   ```

For more information on installing Aqua Logic Data Services Platform 3.2, refer to the ALDSP 3.2 Installation Guide.

Download and Install ALDSP 3.2 for HP-UX 11i v2, v3 on Itanium

Use the following steps to install ALDSP 3.2 for HP-UX 11i v2, v3 on Itanium:

- Download and install the JDK for your installation:
  - Download and Install HP-UX JDK 5.0 for HP-UX 11i v2, v3 on Itanium (32-bit)
  - Download and Install HP-UX JDK 5.0 for HP-UX 11i v2, v3 on Itanium (64 bit)
- Download and install ALDSP 3.2 for your installation (includes WebLogic Server):
  - Download and Install AquaLogic Data Services Platform 3.2 for HP-UX 11i v2, v3 on Itanium (32-bit)
  - Download and Install AquaLogic Data Services Platform 3.2 for HP-UX 11i v2, v3 on Itanium (64-bit)

Download and Install HP-UX JDK 5.0 for HP-UX 11i v2, v3 on Itanium (32-bit)

Complete the following procedure:

1. Go to the HP download site at http://www.hp.com/products1/unix/java/java2/jdkjre5_0/.
2. Download and install the supported HP-UX JDK 5.0 for your configuration.
3. Set the JAVA_HOME environment variable to the directory in which HP JDK is installed and export JAVA_HOME. For example:

   ```
   export JAVA_HOME=/opt/java1.5
   ```

4. Make sure that your PATH variable includes $JAVA_HOME/bin. For example:

```
export PATH=$JAVA_HOME/bin:$PATH
```

Download and Install HP-UX JDK 5.0 for HP-UX 11i v2, v3 on Itanium (64 bit)

Complete the following procedure:

1. Download and install HP-UX JDK 5.0 using the following instructions: Download and Install HP-UX JDK 5.0 for HP-UX 11i v2, v3 on Itanium (32-bit).
2. Use the -d64 option to invoke 64 bit Hotspot server. For example:

```
$java -d64 version
```

Download and Install AquaLogic Data Services Platform 3.2 for HP-UX 11i v2, v3 on Itanium (32-bit)

Complete the following procedure:

1. Go to the BEA download site at http://commerce.bea.com/products/aqualogic/aqualogic_prod_fam.jsp.
2. Click on the Link for BEA AquaLogic Data Services Platform.
3. From the list of OS Platforms for Aqua Logic Data Services Platform 3.2, select HP-UX (11iV2, 11iV3, Itanium).
4. Download the installer aldsp_320_generic.jar file.
5. Install using the following command:

```
java -jar aldsp_320_generic.jar
```

6. Set the WL_HOME variable to the directory in which you installed your BEA product, and export WL_HOME. For example:

```
export WL_HOME=<your_installation_directory>/wlserver_10.0
```

For more information on installing Aqua Logic Data Services Platform 3.2, refer to the ALDSP 3.2 Installation Guide.

Download and Install AquaLogic Data Services Platform 3.2 for HP-UX 11i v2, v3 on Itanium (64-bit)

Complete the following procedure:

1. Go to the BEA download site at http://commerce.bea.com/products/aqualogic/aqualogic_prod_fam.jsp.
2. Click on the Link for BEA AquaLogic Data Services Platform.
3. From the list of OS Platforms for Aqua Logic Data Services Platform 3.2, select HP-UX (11iV2, 11iV3, Itanium).
4. Download the installer aldsp_320_generic.jar file.
5. Install using the following command:

   ```
   java -d64 -jar aldsp_320_generic.jar
   ```

6. Set the WL_HOME variable to the directory in which you installed your BEA product, and export WL_HOME. For example:

   ```
   export WL_HOME=<your_installation_directory>/wlserver_10.0
   ```

7. Update the SHLIB_PATH variable to point to IPF64 directory under WL_HOME/server/native/hpux11/IPF64. In the $WL_HOME/common/bin/commEnv.sh file, replace all occurrences of WL_HOME/server/native/hpux11/IPF32 with WL_HOME/server/native/hpux11/IPF64.

For more information on installing Aqua Logic Data Services Platform 3.2, refer to the ALDSP 3.2 Installation Guide.

Download and Install ALDSP 3.2 for IBM AIX 5.2/5.3

Use the following steps to install ALDSP 3.2 for IBM AIX 5.2/5.3:

1. Downloading and Installing the IBM Java 5
2. Downloading and Installing IBM SDK Java 5 with Service Refresh
3. Download and Install ALDSP 3.2 for IBM AIX 5.2/5.3
4. Download and Apply BEA Patches

Downloading and Installing the IBM Java 5

Complete the following procedure to download and install IBM Java 5.

1. Go to the IBM AIX download site:

   http://www.ibm.com/developerworks/java/jdk/aix/service.html

2. Download the IBM Java 5 32-bit (GA version).
3. Install the IBM Java 5 on your system.

Downloading and Installing IBM SDK Java 5 with Service Refresh

Complete the following procedure to download and install IBM SDK Java 5 with Service Refresh.

1. Go to the IBM Support: Fix Center download site at the following URL:

   `http://www.ibm.com/developerworks/java/jdk/aix/service.html`

2. Click the Fix Info link for your JDK version:
3. Select your APAR/SR number from the table and follow the instructions and/or prompts displayed on the screen to download and install the fix package on your system.

   For SR5a (32-bit), use IZ02874

4. Set the JAVA_HOME environment variable to the directory in which IBM Java5 is installed, and export JAVA_HOME. For example:

   ```
   export JAVA_HOME=/usr/java5
   ```

5. Set the PATH variable to include $JAVA_HOME/bin. For example:

   ```
   export PATH=$JAVA_HOME/bin:$PATH
   ```

Download and Install ALDSP 3.2 for IBM AIX 5.2/5.3

Complete the following procedure:

1. Go to `Oracle E-Delivery` and download ALDSP 3.2 for your environment:

- AIX Based Systems (32-bit)
- AIX5L Based Systems (64-bit)

2. Unzip the file.
3. Make sure that your `PATH` variable includes `$JAVA_HOME/bin`. For example:

   ```
   export PATH=$JAVA_HOME/bin:$PATH
   ```

4. Install using the following command:

   ```
   java -jar aldsp_320_generic.jar
   ```

For more information on installing Aqua Logic Data Services Platform 3.2, refer to the ALDSP 3.2 Installation Guide.

Download and Apply BEA Patches

Apply the following BEA patches for WLS 10.0 MP1 and ALDSP 3.2 for IBM AIX:

WLS 10.0 MP1 (32-bit)

Download and install the following patches for AIX using the BEA Smart Update tool:

- Patch ID: HICY PassCode: 3XMR2IDD

For more information on the BEA Smart Update tool, refer to http://e-docs.bea.com/common/docs100/smart_update/intro.html.

Download and Install ALDSP 3.2 on Windows 2003 for Itanium

Complete the following procedure:

1. Go to `Oracle E-Delivery` and download ALDSP 3.2 for Microsoft Windows 64-bit Intel Itanium.
2. Unzip the file.
3. Install using the following command:

```
aldsp_320_winia64.exe
```

For more information on installing Aqua Logic Data Services Platform 3.2, refer to the ALDSP 3.2 Installation Guide.

Download and Install ALDSP 3.2 on Solaris 9, 10 for x86

Complete the following procedure:

1. Download and install the supported Sun JDK for your environment.
2. Go to `Oracle E-Delivery` and download ALDSP 3.2 for Solaris x86 (32-bit).
3. Unzip the file.
4. Install using the following command:

```
java -jar aldsp_320_generic.jar
```

For more information on installing Aqua Logic Data Services Platform 3.2, refer to the ALDSP 3.2 Installation Guide.

Download and Install ALDSP 3.2 on Solaris 10 for AMD64

Complete the following procedure:

1. Download and install the supported Sun JDK for your environment.
2. Go to `Oracle E-Delivery` and download ALDSP 3.2 for Solaris x86-64 (64-bit).
3. Unzip the file.
4. Install using the following command:

   ```
   java -jar aldsp_320_generic.jar
   ```

For more information on installing Aqua Logic Data Services Platform 3.2, refer to the ALDSP 3.2 Installation Guide.

Download and Install Instructions for Other Supported Platforms

There are no special instructions to install ALDSP 3.2 for HP-UX 11i v1, v2 on RISC, Microsoft Windows platforms, Red Hat Enterprise Linux 4.0 and 5.0 on x86, and Sun Solaris 9 and 10 on SPARC (Using Sun 32-bit JDK). Use the instructions in the ALDSP 3.2 Installation Guide.