Oracle Products

Supported Configurations for Oracle Service Bus 10gR3

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CHAPTER 1

Oracle Service Bus 10*g*R3 Supported Configurations

The following topics provide important information about the hardware and software configurations supported by Oracle for Oracle Service Bus 10gR3. These supported configurations apply to Oracle Service Bus 10gR3 Maintenance Pack 1 (10.3.1) and Oracle Service Bus 10gR3 (10.3).

- Configuration Requirements
- Supported Browsers and Firewalls
- Supported Database Configurations
- Download and Install Information
- OSB Support Policy Information

Related Information

- For detailed information on Oracle Service Bus, refer to Oracle Service Bus 10gR3.
- For information on supported standards, protocols, implementations, and interoperability, refer to Product Support Information.
- For support and installation information on JRockit:
  - For support information, refer to Welcome to JRockit or JRockit FAQ.
  - For download information, refer to Oracle E-Delivery or Oracle Technology Network.
- For support and download information for Sun JDKs, see `http://java.sun.com`.

- For information on Oracle Virtualization support policy, refer to the Additional Information section of http://www.oracle.com/technology/software/products/ias/files/fusion_certification.html.
- For supported non-Oracle Virtualization and Partitioning Technologies, refer to http://www.oracle.com/technology/products/ias/hi_av/oracleas_supported_virtualization.html.

Configuration Requirements

The following sections describe the configuration requirements for this release:

- Supported Application Servers
- Supported Operating Systems and Hardware
- Supported JDK Versions
- Eclipse-Based Design Tools for Workshop for WebLogic
- Supported Localized Version of Oracle Service Bus 10gR3 (10.3, 10.3.1)

Supported Application Servers

This release supports WebLogic Server 10gR3 (10.3).

Supported Operating Systems and Hardware

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

- IBM AIX 5.3, 6.1
- Oracle Enterprise Linux 4.6, 5.0
- Red Hat Enterprise Linux 4.0, 5.0
- Novell SUSE Linux Enterprise Server 9, 10
- HP-UX 11iV2, 11iV3
- Sun Solaris 9, 10
- Microsoft Windows Server 2003, 2008
- Microsoft Windows XP (client only)

IBM AIX 5.3, 6.1

Table 1-1 Requirements for IBM AIX 5.3, 6.1 Using 32-bit JDK

Operating System Version and Patches	• IBM AIX 5.3 TL7+ • IBM AIX 6.1 Gold (AIX 6.1 TL0+) **Note:** IBM TL (Technology Level) replaces ML (Maintenance Level). **Note:** "+" after the TL version number indicates that this and higher versions of Technology Levels and latest Service Packs are supported.
Chip Architecture	• POWER5 • POWER6
SDK	IBM Java 6 32-bit JDK (Service Refresh 2)—Java version 1.6.0, Java™ 2 Runtime Environment, Standard Edition (build pap3260sr2-20080818_01 (SR2)) IBM J9 VM (build 2.4, J2RE 1.6.0 IBM J9 2.4 AIX ppc-32 jvmap3260-20080816_22093 (JIT enabled, AOT enabled) IBM Java 6 32-bit JDK (Service Refresh 4)—Java version 1.6.0, Java™ 2 Runtime Environment, Standard Edition (build pap3260sr4ifix-20090417_02(SR4+IZ48590) IBM J9 VM (build 2.4, J2RE 1.6.0 IBM J9 2.4 AIX ppc-32 jvmap3260sr4ifx-20090409_33254 (JIT enabled, AOT enabled)
RAM	1 GB required; 2 GB recommended
Performance Pack	`server/native/aix/ppc/libmuxer.so`

Table 1-2 Requirements for IBM AIX 5.3, 6.1 Using 64-bit JDK

Operating System Version and Patches	• IBM AIX 5.3 TL7+ • IBM AIX 6.1 Gold (AIX 6.1 TL0+) **Note:** IBM TL (Technology Level) replaces ML (Maintenance Level). **Note:** "+" after the TL version number indicates that this and higher versions of Technology Levels and latest Service Packs are supported.
Chip Architecture	• POWER5 • POWER6
SDK	IBM Java 6 64-bit JDK (Service Refresh 2)—Java version 1.6.0, Java™ 2 Runtime Environment, Standard Edition (build pap6460sr2-20080818_01 (SR2)) IBM J9 VM (build 2.4, J2RE 1.6.0 IBM J9 2.4 AIX ppc64-64 jvmap6460-20080816_22093 (JIT enabled, AOT enabled) IBM Java 6 64-bit JDK (Service Refresh 4)—Java version 1.6.0, Java™ 2 Runtime Environment, Standard Edition (build pap6460sr4ifix-20090417_02(SR4+IZ48590)) IBM J9 VM (build 2.4, J2RE 1.6.0 IBM J9 2.4 AIX ppc64-64 jvmap6460sr4ifx-20090409_33254 (JIT enabled, AOT enabled)
RAM	1 GB required; 2 GB recommended
Performance Pack	`server/native/aix/ppc64/libmuxer.so`

Oracle Enterprise Linux 4.6, 5.0

This section describes the requirements for Oracle Service Bus on Oracle Enterprise Linux 4.6, 5.0.

- Requirements for Oracle Enterprise Linux 4.6, 5.0 Using 32-bit JDK
- Requirements for Oracle Enterprise Linux 4.6, 5.0 Using 64-bit JDK

Table 1-3 Requirements for Oracle Enterprise Linux 4.6, 5.0 Using 32-bit JDK

Operating System Version and Patches	• Oracle Enterprise Linux AS release 4 (October Update 6) Kernel 2.6.9-67.0.0.0.1.ELsmp, and glibc-2.3.4-2.39 and later updates and errata levels • Oracle Enterprise Linux 5.0 (Carthage) Kernel 2.6.18-8.el5, and glibc 2.5-12 and later updates and errata level.
Chip Architecture	• x86 • 64-bit Xeon • 64-bit AMD64
JDK	• JRockit 6.0 R27.6.0-50 JDK (32-bit) and all later 6.0 releases of JRockit • Sun Java 2 JDK 6.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 6.0 (version 1.6.0_05)
RAM	1 GB minimum, 2 GB recommended
Performance Pack	`server/native/linux/i686/libmuxer.so`
Tooling Support	No

Table 1-4 Requirements for Oracle Enterprise Linux 4.6, 5.0 Using 64-bit JDK

Operating System Version and Patches	• Oracle Enterprise Linux AS release 4 (October Update 6) Kernel 2.6.9-67.0.0.0.1.ELsmp, and glibc-2.3.4-2.39 and later updates and errata levels • Oracle Enterprise Linux 5.0 (Carthage) Kernel 2.6.18-8.el5, and glibc 2.5-12 and later updates and errata levels
Chip Architecture	• 64-bit Xeon • 64-bit AMD64
JDK	JRockit 6.0 R27.6.0-50 JDK (64-bit) and all later 6.0 releases of JRockit
RAM	1 GB minimum, 2 GB recommended

Table 1-4 Requirements for Oracle Enterprise Linux 4.6, 5.0 Using 64-bit JDK

Performance Pack	`server/native/linux/x86_64/libmuxer.so`
Tooling Support	No

Red Hat Enterprise Linux 4.0, 5.0

This section describes the requirements for Oracle Service Bus on Red Hat Enterprise Linux 4.0, 5.0.

- Requirements for Red Hat Enterprise Linux 4.0, 5.0 Using 32-bit JDK
- Requirements for Red Hat Enterprise Linux 4.0, 5.0 Using 64-bit JDK

Table 1-5 Requirements for Red Hat Enterprise Linux 4.0, 5.0 Using 32-bit JDK

Operating System Version and Patches	• Red Hat Enterprise Linux 4.0 AS, ES, WS and any dot release higher than dot zero (or later updates) in RHEL 4 are supported. For example, RHEL 4.3 is supported. • Red Hat Enterprise Linux Server release 5.0 (Tikanga) and any dot release higher than dot 0 in RHEL 5 are supported. For example, RHEL 5.4 is supported. **Note:** Red Hat Enterprise Linux 4.x AS / ES is supported in a production environment. Red Hat Enterprise Linux 4.x WS (Workstation) is not supported for production server deployment; it is supported for the design, development, and verification of applications only. **Note:** Red Hat Enterprise Linux 5.x AS / ES is supported in a production environment. Red Hat Enterprise Linux 5.x WS (Workstation) is not supported for production server deployment; it is supported for the design, development, and verification of applications only.
Chip Architecture	• x86 • 64-bit Xeon • 64-bit AMD64

Table 1-5 Requirements for Red Hat Enterprise Linux 4.0, 5.0 Using 32-bit JDK

JDK	• JRockit 6.0 R27.6.0-50 JDK (32-bit) and all later 6.0 releases of JRockit • Sun Java 2 JDK 6.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 6.0 (version 1.6.0_05)
RAM	1 GB minimum, 2 GB recommended
Performance Pack	`server/native/linux/i686/libmuxer.so`
Tool Support	Yes, see Eclipse-Based Design Tools for Workshop for WebLogic

Table 1-6 Requirements for Red Hat Enterprise Linux 4.0, 5.0 Using 64-bit JDK

Operating System Version and Patches	• Red Hat Enterprise Linux 4.0-1 AS, ES, WS and any dot release higher than dot zero (or later updates) in RHEL 4 are supported. For example, RHEL 4.3 is supported. • Red Hat Enterprise Linux Server release 5 (Tikanga) and any dot release higher than dot 0 in RHEL 5 are supported. For example, RHEL 5.4 is supported. **Note:** Red Hat Enterprise Linux 4.x AS / ES is supported in a production environment. Red Hat Enterprise Linux 4.x WS (Workstation) is not supported for production server deployment; it is supported for the design, development, and verification of applications only. **Note:** Red Hat Enterprise Linux 5.x AS / ES is supported in a production environment. Red Hat Enterprise Linux 5.x WS (Workstation) is not supported for production server deployment; it is supported for the design, development, and verification of applications only.
Chip Architecture	• 64-bit Xeon • 64-bit AMD64
JDK	JRockit 6.0 R27.6.0-50 JDK (64-bit) and all later 6.0 releases of JRockit
RAM	1 GB minimum, 2 GB recommended
Performance Pack	`server/native/linux/x86_64/libmuxer.so`
Tool Support	Yes, see Eclipse-Based Design Tools for Workshop for WebLogic

Novell SUSE Linux Enterprise Server 9, 10

This section describes the requirements for Oracle Service Bus on Novell SUSE Linux Enterprise Server 9, 10.

- Requirements for Novell SUSE Linux Enterprise Server 9, 10 on x86, 64-bit Xeon and AMD64 Using 32-bit JDK
- Requirements for Novell SUSE Linux Enterprise Server 9, 10 on 64-bit Xeon and AMD64 Using 64-bit JDK

Table 1-7 Requirements for Novell SUSE Linux Enterprise Server 9, 10 on x86, 64-bit Xeon and AMD64 Using 32-bit JDK

Operating System Version and Patches	• SUSE LINUX Enterprise Server 9 with Kernel 2.6.5-7.244-smp glibc-2.3.3-98.61 and later SUSE service packs and errata • SUSE Linux Enterprise Server (SLES) 10 with Kernel 2.6.16.21-0.8-bigsmp, glibc-2.4-31.5 and later SUSE service packs and errata
Chip Architecture	• x86 • AMD64 • 64-bit Xeon
JDK	• Sun Java 2 JDK 6.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 6.0 (version 1.6.0_05) • JRockit 6.0 R27.6.0-50 JDK (32-bit) and all later 6.0 releases of JRockit
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Tool Support	No

Table 1-8 Requirements for Novell SUSE Linux Enterprise Server 9, 10 on 64-bit Xeon and AMD64 Using 64-bit JDK

Operating System Version and Patches	• SUSE LINUX Enterprise Server 9 with Kernel 2.6.5-7.244-smp glibc-2.3.3-98.61 and later SUSE service packs and errata • SUSE Linux Enterprise Server (SLES) 10 with Kernel 2.6.16.21-0.8-bigsmp, glibc-2.4-31.5 and later SUSE service packs and errata
Chip Architecture	• AMD64 • 64-bit Xeon
JDK	• Sun Java 2 JDK 6.0 with the Java HotSpot™ Client and Server VMs (64-bit) and all later service packs of 6.0 (version 1.6.0_05)
RAM	1 GB minimum
Performance Pack	`server/native/linux/x86_64/libmuxer.so`
Tool Support	No

HP-UX 11iV2, 11iV3

This section describes the requirements for Oracle Service Bus on HP-UX.

- Requirements for HP-UX 11iv2, 11iv3 on Itanium Using 32-bit JDK
- Requirements for HP-UX 11iv2, 11iv3 on PA-RISC Using 32-bit JDK
- Requirements for HP-UX 11iv2, 11iv3 on Itanium Using 64-bit JDK

Table 1-9 Requirements for HP-UX 11iv2, 11iv3 on Itanium Using 32-bit JDK

Operating System Version and Patches	HP-UX 11i v2 (B.11.23) with HP-UX patches for Java™ HP-UX 11i v3 (B.11.31) with HP-UX patches for Java™. See http://www.hp.com/products1/unix/java/patches/index.html.
Chip Architecture	HP Itanium
JDK	HP-UX JDK for the Java 2 Standard Edition platform version 6.0.01 with Java HotSpot™ Server VM (32-bit) and all later JDK 6.0.* service packs for development and production deployment on HP-UX
RAM	1 GB minimum, 2 GB recommended
Performance Pack	`server/native/hpux11/IPF32/libmuxer.so`
Tool Support	No

Table 1-10 Requirements for HP-UX 11iv2, 11iv3 on PA-RISC Using 32-bit JDK

Operating System Version and Patches	HP-UX 11i v2 (B.11.23) with HP-UX patches for Java™ HP-UX 11i v3 (B.11.31) with HP-UX patches for Java™. See http://www.hp.com/products1/unix/java/patches/index.html.
Chip Architecture	HP PA-RISC (240 MHz)
JDK	HP-UX JDK for the Java 2 Standard Edition platform version 6.0.01 with Java HotSpot™ Server VM (32-bit) and all later JDK 6.0.* service packs for development and production deployment on HP-UX
RAM	1 GB minimum, 2 GB recommended
Performance Pack	`server/native/hpux11/PA_RISC/libmuxer.sl`
Tool Support	No

Table 1-11 Requirements for HP-UX 11iv2, 11iv3 on Itanium Using 64-bit JDK

Operating System Version and Patches	HP-UX 11i v2 (B.11.23) with HP-UX patches for Java™ HP-UX 11i v3 (B.11.31) with HP-UX patches for Java™. See http://www.hp.com/products1/unix/java/patches/index.html.
Chip Architecture	HP Itanium
JDK	HP-UX JDK for the Java 2 Standard Edition platform version 6.0.01 with Java HotSpot™ Server VM (64-bit) and all later JDK 6.0.* service packs for development and production deployment on HP-UX
RAM	1 GB minimum, 2 GB recommended
Performance Pack	`server/native/hpux11/IPF64/libmuxer.so`
Tool Support	No

Sun Solaris 9, 10

This section describes the requirements for Oracle Service Bus on Solaris 9,10.

- Requirements for Solaris 9, 10 on SPARC 64 Using Sun 32-bit JDK
- Requirements for Solaris 9, 10 on SPARC 64 Using 64-bit JDK
- Requirements for Solaris 9, 10 on 64-bit Xeon and AMD64 Using 64-bit JDK

Table 1-12 Requirements for Solaris 9, 10 on SPARC 64 Using Sun 32-bit JDK

Operating System Version and Patches	• Solaris 9 • Solaris 10
Chip Architecture	UltraSPARC
JDK	Sun Java 2 JDK 6.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 6.0 (version 1.6.0_05)

Table 1-12 Requirements for Solaris 9, 10 on SPARC 64 Using Sun 32-bit JDK

RAM	1 GB minimum, 2 GB recommended
Performance Pack	`server/native/solaris/x64/libmuxer.so`
Tool Support	No

Table 1-13 Requirements for Solaris 9, 10 on SPARC 64 Using 64-bit JDK

Operating System Version and Patches	• Solaris 9 • Solaris 10
Chip Architecture	UltraSPARC
JDK	• Sun Java 2 JDK 6.0 with the Java HotSpot™ Client and Server VMs (64-bit) and all later service packs of 6.0 (version 1.6.0_05) • JRockit 6.0 R27.6.0-50 JDK (64-bit) and all later 6.0 releases of JRockit
RAM	1 GB minimum, 2 GB recommended
Performance Pack	`server/native/solaris/sparc64/libmuxer.so`
Tool Support	No

Table 1-14 Requirements for Solaris 9, 10 on 64-bit Xeon and AMD64 Using 64-bit JDK

Operating System Version and Patches	• Solaris 9 • Solaris 10
Chip Architecture	• AMD64 • 64-bit Xeon
JDK	• Sun Java 2 JDK 6.0 with the Java HotSpot™ Client and Server VMs (64-bit) and all later service packs of 6.0 (version 1.6.0_05)

Table 1-14 Requirements for Solaris 9, 10 on 64-bit Xeon and AMD64 Using 64-bit JDK

RAM	1 GB minimum, 2 GB recommended
Performance Pack	`server/native/solaris/x64/libmuxer.so`
Tool Support	No

Microsoft Windows Server 2003, 2008

This section describes the requirements for Oracle Service Bus on Windows Server 2003, Windows Server 2008.

- Requirements for Microsoft Windows Server 2003, 2008 on x86, 64-bit Xeon, AMD64 Using 32-bit JDK
- Requirements for Microsoft Windows Server 2008 on 64-bit Xeon, AMD64 Using 64-bit JDK

Table 1-15 Requirements for Microsoft Windows Server 2003, 2008 on x86, 64-bit Xeon, AMD64 Using 32-bit JDK

Operating System Version and Patches	Windows Server 2003 with Service Pack 2 and higher Windows Server 2008 (includes SP1+) • Standard Edition • Enterprise Edition • Datacenter Edition
Chip Architecture	• x86 • 64-bit Xeon • 64-bit AMD64
JDK	• JRockit 6.0 R27.6.0-50 JDK (32-bit) and all later 6.0 releases of JRockit • Sun Java 2 JDK 6.0 (32-bit) with Java HotSpot™ Client VM and all later service packs of 6.0 (version 1.6.0_05)

Table 1-15 Requirements for Microsoft Windows Server 2003, 2008 on x86, 64-bit Xeon, AMD64 Using 32-bit JDK

RAM	1 GB minimum, 2 GB recommended
Performance Pack	`server\native\win\32\wlntio.dll`
Tool Support	No

Table 1-16 Requirements for Microsoft Windows Server 2008 on 64-bit Xeon, AMD64 Using 64-bit JDK

Operating System Version and Patches	Windows Server 2008 (includes SP1+) • Standard Edition • Enterprise Edition • Datacenter Edition
Chip Architecture	• 64-bit Xeon • 64-bit AMD64
JDK	• JRockit 6.0 R27.6.0-50 JDK (64-bit) and all later 6.0 releases of JRockit
RAM	1 GB minimum, 2 GB recommended
Performance Pack	`server\native\win\x64\wlntio.dll`
Tool Support	No

Microsoft Windows XP (client only)

This section describes the requirements for Oracle Service Bus on Windows XP.

Client Only Support

Support for use of WebLogic Server remote Java clients, including RMI clients, JMS clients, IIOP clients, Web Services clients, to call services hosted on a separate WebLogic Server server instance, typically hosted on a remote machine. Client Only support does not include Web Server plug-in support. All protocols supported by current WLS remote Java clients are included. Use

with and without SSL is included. Client Only support does not include the ability to run a WebLogic Server server instance to host applications/services.

- Requirements for Microsoft Windows XP on x86

Table 1-17 Requirements for Microsoft Windows XP on x86

Operating System Version and Patches	Windows XP Service Pack 2 and later Service Packs
Chip Architecture	x86 and compatible chip architectures
JDK	JRockit 6.0 R27.6.0-50 JDK (32-bit) and all later 6.0 releases of JRockit
	Sun Java 2 JDK 6.0 (32-bit) with Java HotSpot™ Client VM and all later service packs of 6.0 (version 1.6.0_05)
RAM	1 GB minimum, 2 GB recommended
Performance Pack	`server\native\win\32\wlntio.dll`
Tool Support	Yes, see Eclipse-Based Design Tools for Workshop for WebLogic

Oracle 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.

For information about supported databases, see "Database Versions and Drivers Supported for Oracle Service Bus 10gR3" on page 3-3.

Supported JDK Versions

For JDK support in Oracle Service Bus, review the JDK row that is listed for each vendor and operating system in Supported Operating Systems and Hardware.

Eclipse-Based Design Tools for Workshop for WebLogic

The Oracle Service Bus Plug-in for Workshop for WebLogic lets you configure services in the development environment in addition to the Oracle Service Bus console. Eclipse-based design tools for this release include:

- Eclipse 3.3.2
- Eclipse WTP 2.0
- Oracle Service Bus Plug-in for Workshop for WebLogic
- Workshop for WebLogic 10.3
- Service Consumption Framework v1.0.4
- SCA Tools v1.0.4
- Oracle XQuery Mapper 1.1.0.0
- Oracle Format Builder 1.1.0.0.

The Eclipse tooling is supported on Windows XP and Red Hat Enterpriuse Linux 4 and 5.

Supported Localized Version of Oracle Service Bus 10gR3 (10.3, 10.3.1)

The localized version of Oracle Service Bus 10gR3 is supported and made available via the Oracle Service Bus 10gR3 Language Pack. The Language Pack is a supplement pack to the Oracle Service Bus English installer and it consists of only localized file sets. The user needs to first install Oracle Service Bus using the English installer, and then extract the language files from the Language Pack. The Language Pack needs to be downloaded to $BEA_HOME.

The following languages are supported: Simplified Chinese, Traditional Chinese, Japanese, and Korean. For download and installation instructions, go to Download and Install Information.

CHAPTER 2

Supported Browsers and Firewalls

This section describes Oracle Service Bus 10gR3 support for the following configuration components:

- Browsers and Plug-Ins
- Firewalls

Browsers and Plug-Ins

Browsers are used for a variety of purposes, including:

- “Accessing End-User Applications” on page 2-1
- “Accessing Oracle Service Bus Consoles” on page 2-2

Accessing End-User Applications

In general, Orac;e Service Bus 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” on page 2-3.

Accessing Oracle Service Bus Consoles

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 Oracle Service Bus is dependent on the browser version and the Java plug-in for applet support.

Browser Support for the Oracle Service Bus Console

The following list summarizes browser support for the Oracle Service Bus console:

- Microsoft Internet Explorer
  - 6.0 SP1 and later service packs
  - 7.0 and later service packs
- Mozilla FireFox
  - Firefox 1.0
  - Firefox 1.5
  - Firefox 2.0

Note: You must disable pop-up blockers when using the Oracle Service Bus Console.

Firefox Browser Settings

If a page is not displayed correctly in your Firefox browser (for example, if the display of the left navigation bar occupies an entire window instead of part of a window), you may have to replace the default browser settings, as described in the following procedure:

1. Go to one of the following directories: `MOZILLA_HOME/default/pref` or `MOZILLA_HOME/greprefs`.
2. Open `all.js`.
3. Find `browser.cache.check_doc_frequency` and change the value to 1.
   - The default setting is `pref("browser.cache.check_doc_frequency", 3)`.

  - The new setting is `pref("browser.cache.check_doc_frequency",  1).`

4. Save the file.

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

Firewalls

Oracle Service Bus supports network devices, such as firewalls, that properly support network protocols and the 7-Layer Network Model.

Oracle will perform root cause analysis on interaction problems between Oracle Service Bus and network devices, and it will address Oracle Service Bus product issues as appropriate, but it cannot address network address issues.

CHAPTER 3

Supported Database Configurations

This section includes the following topics:

Database Access Requirements

Oracle Service Bus requires the following database-specific resources:

- Access to a database server installed on the local network. When Oracle Service Bus is installed on your system, a local copy of the PointBase database is provided. This copy of the database is provided solely for evaluation purposes. For any other use of the PointBase Server, the user is required to obtain a separate PointBase Server license directly from DataMirror.
- If you plan to use the JMS Reporting Provider, then a database server account with privileges sufficient for creating a database with tables must be available.

Support for JDBC Drivers

This section provides:

JDBC Drivers Bundled with Oracle Service Bus

The following table lists the database drivers that are installed with Oracle Service Bus 10gR3.

Table 3-1 Database Drivers Available with Oracle Service Bus 10gR3

Type	Drivers	For more information, see . . .
WebLogic Type 4 JDBC drivers	DB2	*WebLogic Type 4 JDBC Drivers*: http://e-docs.bea.com/wls/docs103/jdbc_drivers/index.html
	Oracle	
	SQL Server	
	Sybase	
Third-party drivers supported by WebLogic Server	PointBase Type 4	• "Using Third-Party Drivers with WebLogic Server" in *Programming WebLogic JDBC:* http://e-docs.bea.com/wls/docs103/jdbc/thirdparty.html • "Using Third-Party JDBC Drivers with WebLogic Server" in *Configuring and Managing WebLogic JDBC:* http://e-docs.bea.com/wls/docs103/jdbc_admin/third_party_drivers.html

Configuring JDBC Drivers

The Configuration Wizard and the WebLogic Server Administration Console provide default configuration settings for the drivers listed in "Support for JDBC Drivers" on page 3-1, and the drivers listed in "Database Versions and Drivers Supported for Oracle Service Bus 10gR3" on page 3-3. In some cases, support for configuring third-party drivers is provided even though the driver itself is not bundled with the product.

For more information about configuring drivers from third-party vendors, see "Using Third-Party Drivers with WebLogic Server" in *Programming WebLogic JDBC* at:
http://e-docs.bea.com/wls/docs103/jdbc/thirdparty.html.

Note: Oracle Service Bus does not support custom configuration, through the Configuration Wizard, of all the third-party drivers supported for custom configuration by WebLogic

Server. For a list of drivers supported by Oracle Service Bus, see Table 3-2, "Database Types and Drivers Supported by Oracle Service Bus 10gR3," on page 3-3.

Database Versions and Drivers Supported for Oracle Service Bus 10gR3

The following table lists the types and versions of databases and drivers supported for use with Oracle Service Bus 10gR3.

Table 3-2 Database Types and Drivers Supported by Oracle Service Bus 10gR3

Database Type	JDBC Driver	Notes
DB2 8.2 FixPak2 (equivalent to 8.1 FixPak 9) and later FixPaks	• Oracle WebLogic Type 4 JDBC DB2 Driver • Oracle WebLogic Type 4 JDBC DB2 XA Driver	
DB2 9.5 and later FixPaks	• Oracle WebLogic Type 4 JDBC DB2 Driver • Oracle WebLogic Type 4 JDBC DB2 XA Driver	
Oracle 9.2.0.4 and later patch sets of 9.2.x	• Oracle WebLogic Type 4 JDBC Oracle Driver • Oracle WebLogic Type 4 JDBC Oracle XA Driver • Oracle Driver 10g • Oracle Thin XA Driver 10g	
Oracle 10.1.0.3 and later patch sets of 10.1.x (32-bit and 64-bit production editions)	• Oracle Thin Driver 11g • Oracle Thin XA Driver 11g	

Table 3-2 Database Types and Drivers Supported by Oracle Service Bus 10gR3 (Continued)

Database Type	JDBC Driver	Notes
Oracle 10.2 and later patch sets of 10.2 (32-bit and 64-bit production editions)	• Oracle Thin Driver 11g • Oracle Thin XA Driver 11g	
Oracle 11*g*R1 (Oracle 11.1.0.6+) (32-bit and 64-bit production editions)	• Oracle Thin Driver 11g • Oracle Thin XA Driver 11g	
Oracle 11*g*R2 (11.2.0.1+)(32-bit and 64-bit production editions)	• Oracle Thin Driver 11g • Oracle Thin XA Driver 11g	
PointBase 5.1	PointBase Type 4 Driver	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.
SQL Server 2005	Oracle WebLogic Type 4 JDBC SQL Server Driver	
Sybase 12.5.03 and later patch levels of 12.5.x	• Oracle WebLogic Type 4 JDBC Sybase Driver • Oracle WebLogic Type 4 JDBC Sybase XA Driver	

For more information about using database drivers, see "Using Third-Party Drivers with WebLogic Server" in *Programming WebLogic JDBC* at:
http://e-docs.bea.com/wls/docs103/jdbc/thirdparty.html.

Oracle Service Bus 10gR3 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 3-3 Database Types and Drivers Supported by Oracle Service Bus

Database Type	JDBC Driver
Oracle 10*g*R2 RAC (for Oracle 10.2.0.1 and later patch sets of 10.2.x)	• Oracle Thin Driver 11g • Oracle Thin XA Driver 11g
Oracle 11*g*R1 RAC (Oracle 11.1.0.6+)	• Oracle Thin Driver 11g • Oracle Thin XA Driver 11g
Oracle 11*g*R2 RAC (Oracle 11.2.0.1+)	• Oracle Thin Driver 11g • Oracle Thin XA Driver 11g

CHAPTER 4

Download and Install Information

The following sections provide download and installation information for Oracle Service Bus (OSB) 10gR3:

Download and Installation Instructions

- Download and Installation for Oracle Service Bus
- Download and Installation for Localized Version of Oracle Service Bus 10gR3 (10.3.1)
- Download and Installation for HP-UX JDK 6.0 for HP-UX 11i V2, V3 on Itanium/PA-RISC
- Download and Installation for IBM SDK Java 6 with Service Refresh (SR2, SR4+IZ48590)
- Download and Apply Oracle | BEA Patches
- Known Issues

Download and Installation for Oracle Service Bus

- Download and Installation for Oracle Service Bus 10.3.1

Download and Installation for Oracle Service Bus 10.3.1

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

a. If your platform is HP Itanium, refer to the HP-UX JDK installation instructions at Download and Installation for HP-UX JDK 6.0 for HP-UX 11i V2, V3 on Itanium/PA-RISC.

b. If your platform is IBM AIX, refer to the IBM AIX JDK installation instructions at Download and Installation for IBM SDK Java 6 with Service Refresh (SR2, SR4+IZ48590)

2. Go to `Oracle E-Delivery` to download the Oracle Service Bus file. Select Product Pack **Oracle Fusion Middleware** and the platform for your environment. Select the **Oracle Application Server 10g Release 3 Media Pack**. The following Oracle Service Bus part numbers are available for download:

Table 4-1 List of Oracle Service Bus 10.3.1 Part Numbers By Platform

Platform (eDelivery selection)	Operating System	Hardware	JVM	Part Number (Description)
IBM AIX on POWER Systems (64-bit)	IBM AIX 5.3, 6.1	pSeries	JDK (32-bit) JDK (64-bit)	V16835-01 (Oracle Service Bus 10g Release 3 (10.3.1) for generic)
HP-UX Itanium	HP-UX 11iV2, 11iV3	HP Itanium	JDK (32-bit) JDK (64-bit)	V16835-01 (Oracle Service Bus 10g Release 3 (10.3.1) for generic)
HP-UX PA-RISC (64-bit)	HP-UX 11iV2, 11iV3	HP PA-RISC	JDK (32-bit)	V16835-01 (Oracle Service Bus 10g Release 3 (10.3.1) for generic)

Linux x86	• Oracle Enterprise Linux 4, 5 • Red Hat Enterprise Linux 4, 5 • Novell SUSE Linux Enterprise Server 9, 10	• x86 • 64-bit Xeon • AMD64	JDK (32-bit)	V16832-01 (Oracle Service Bus 10g Release 3 (10.3.1) for Linux x86 (32-bit))
Linux x86-64	• Oracle Enterprise Linux 4, 5 • Red Hat Enterprise Linux 4, 5 • Novell SUSE Linux Enterprise Server 9, 10	• 64-bit Xeon • AMD64	JDK (64-bit)	V16835-01 (Oracle Service Bus 10g Release 3 (10.3.1) for generic)
Microsoft Windows (32-bit)	• Windows 2003 • Windows 2008 • Windows XP (client only)	• x86	JDK (32-bit)	V16831-01 (Oracle Service Bus 10g Release 3 (10.3.1) for Microsoft Windows (32-bit))
Microsoft Windows x64 (64-bit)	• Windows 2003 • Windows 2008 • Windows XP (client only)	• 64-bit Xeon • AMD64	JDK (32-bit)	V16831-01 (Oracle Service Bus 10g Release 3 (10.3.1) for Microsoft Windows (32-bit))
Microsoft Windows x64 (64-bit)	Windows 2008	• 64-bit Xeon • AMD64	JDK (64-bit)	V16835-01 (Oracle Service Bus 10g Release 3 (10.3.1) for generic)

Sun Solaris Sparc (64-bit)	Solaris 9, 10	SPARC 64	JDK (32-bit)	V16833-01 (Oracle Service Bus 10g Release 3 (10.3.1) for Sun Solaris SPARC (32-bit))
Sun Solaris Sparc (64-bit)	Solaris 9, 10	SPARC 64	JDK (64-bit)	V16835-01 (Oracle Service Bus 10g Release 3 (10.3.1) for generic)
Sun Solaris x86-64 (64-bit)	Solaris 10	• 64-bit Xeon • AMD64	JDK (64-bit)	V16835-01 (Oracle Service Bus 10g Release 3 (10.3.1) for generic)

3. Unzip the file.
4. Install Oracle Service Bus by completing the console-mode installation procedure. Refer to the installation instructions at Running the Installation in the Console Mode.

For more information on installing Oracle Service Bus, refer to the Oracle Service Bus 10gR3 Online Documentation.

Download and Installation for Localized Version of Oracle Service Bus 10gR3 (10.3.1)

1. The Oracle Service Bus 10gR3 English installer must be installed first before you can install the localized version of Oracle Service Bus.
2. Go to `Oracle E-Delivery` to download the localized version of the Oracle Service Bus.
   - Select Product Pack **Oracle Fusion Middleware** and the platform for your environment.
   - Select the **Oracle Application Server 10g Release 3 Media Pack**.
   - For Oracle Service Bus 10.3.1, select

     V16837-01 Oracle Service Bus 10gR3 (10.3.1) Language Pack (Japanese, Korean, Simplified Chinese, Traditional Chinese).

Note: The Language Pack does not include any binary files. The Language Pack can be applied to any platform.

3. You can download the language pack to $BEA_HOME and then extract/unjar the files from the Language pack.

   For example, the following media can be extracted from the Language Pack:

   – B48293-01 AquaLogic Service Bus (Korean, Simplified Chinese, Traditional Chinese) 2.6 RP1 for Microsoft Windows (32-bit)

   – B48295-01 AquaLogic Service Bus (Japanese) for Microsoft Windows (32-bit)

For more information on installing the Language pack, refer to the Readme.txt files that are in the Language Pack.

Download and Installation for HP-UX JDK 6.0 for HP-UX 11i V2, V3 on Itanium/PA-RISC

If you have an HP Itanium or HP PA-RISC platform and if you don't already have HP-UX JDK 6.0 installed, complete the following procedure:

1. Go to the HP download site:

   – http://www.hp.com/products1/unix/java/java2/jdkjre6_0/

2. Download and install HP-UX JDK 6.0 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/java1.6
   ```

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

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

   If you are running with 64 bit JDK, you need to perform the following extra step:

5. Use the `-d64` option to invoke 64 bit Hotspot server. For example:

   ```
   $java -d64 version
   ```

should show, depending on your JDK, a string similar to:

```
java version "1.6.0.01"
```

```
Java(TM) SE Runtime Environment (build
1.6.0.01-jinteg_10_apr_2008_04_03-b00)

Java HotSpot(TM) 64-Bit Server VM (build 1.6.0.01 jinteg:04.10.08-20:30
IA64W, mixed mode)
```

Download and Installation for IBM SDK Java 6 with Service Refresh (SR2, SR4+IZ48590)

Complete the following procedure to download and install IBM SDK Java 6 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. Select 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.
   a. For SR2 (32-bit) use IZ30723. For SR2 (64-bit) use IZ30726.
   b. For SR4+IZ48590 (32-bit) use IZ50170. For SR4+IZ48590 (64-bit) use IZ50167.
4. Set the JAVA_HOME environment to the directory in which IBM Java6 is installed. For example,

   ```
   export JAVA_HOME=/usr/java6
   ```

5. Set the Path variable to include $JAVA_HOME/bin. For example,

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

Download and Apply Oracle | BEA Patches

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

- Patch ID: I52N Passcode: KM884XN5
- Patch ID: U9QQ Passcode: Y9CFY5AJ
- Patch ID: EV9B Password: ZC4KRXLH

For more information on the Oracle Smart Update tool, refer to *http://e-docs.bea.com/common/smartupdate/guide/intro.html*.

Known Issues

For a complete list of known and resolved issues for Oracle Service Bus 10gR3, refer to the Known and Resolved Issues section of the Oracle Service Bus 10gR3 Release Notes.

CHAPTER 5

OSB Support Policy Information

The following sections provide support information about OSB:

- Important Support Information
- End-of-Life and Product Life Cycle Policy Information

Important Support Information

The following sections provides guidance about high-level support policies:

- OSB Support
- Supported Hardware
- Supported Non-Oracle Virtualization and Partitioning Technologies
- Support Policy for Third-Party JVMs

OSB Support

Oracle supports OSB software on the configurations supported in this document. The supported configurations include multiple combinations of hardware, operating systems, JDKs, database systems, Web servers, and browsers that can be used with OSB software. We are working to increase the number of configurations we support, and will update this information as new supported configurations are added.

Please contact your sales representative for information about configurations not listed in this document. Note that even using a supported configuration does not guarantee that you will never

encounter operating system and JVM issues while running your application. We suggest that customers regularly check their operating system and JVM vendor Web sites for information and patches recommended by those vendors.

Supported Hardware

This section provides information about:

- Support Policy for Compatible Hardware Architectures
- Support for Intel 64-bit Xeon Hardware
- Support for BladeFrame Architecture

Support Policy for Compatible Hardware Architectures

Oracle products are certified for particular hardware chip architectures, as specified in "Supported Operating Systems and Hardware" on page 1-2. In some cases, a single chip architecture is provided by multiple vendors. Oracle supports such implementations when they are certified for compliance by their respective owners. For example:

- Fujitsu offers a line of machines called Primepower. Because Sun has certified Primepower systems for SPARC compatibility, all Primepower computers are supported for any SPARC-based system listed in "Supported Operating Systems and Hardware" on page 1-2.
- The IA32-compatible (that is, x86/Xeon-compatible) architecture that is supported in the same manner by AMD.

Support for Intel 64-bit Xeon Hardware

Intel's 64-bit Xeon hardware is capable of running in either of two modes: with 64-bit extended addressing or as an IA32 (x86/Xeon) machine:

- If 64-bit Xeon is explicitly listed in "Supported Operating Systems and Hardware" on page 1-2, this architecture will support 64-bit extended addressing.
- If 64-bit Xeon is *not* listed in "Supported Operating Systems and Hardware," this architecture will be supported only for use as an IA32 machine with the supported 32-bit operating systems and SDKs for x86-based systems listed in "Supported Operating Systems and Hardware" on page 1-2.

Support for BladeFrame Architecture

Oracle supports BladeFrame architectures on any configuration of operating system, hardware chip architecture, and SDK that is listed in "Supported Operating Systems and Hardware" on page 1-2.

Supported Non-Oracle Virtualization and Partitioning Technologies

- For supported non-Oracle Virtualization and Partitioning technologies, refer to *http://www.oracle.com/technology/products/ias/hi_av/oracleas_supported_virtualization.html.*

Support Policy for Third-Party JVMs

A Java Virtual Machine (JVM) is required for Oracle Service Bus to run. For your convenience, in most cases the OSB installation program includes a JVM for creation of OSB domain configurations and use of OSB software. For details, see the installation guide for Oracle Service Bus.

If the JVM used in your configuration is not the Oracle JRockit JVM, but a JVM provided by a third party, Oracle cannot directly resolve potential issues traced to the third-party JVM. Support for a third-party JVM must be provided by the JVM vendor.

The version of any third-party JVM bundled by Oracle is recommended by the JVM vendor at the time Oracle releases its product. Because the versions of JVMs supported by vendors change over time, please consult with your JVM vendor and confirm the latest configurations in the documentation for your operating system before using a third-party JVM. To find the documentation for your operating system, see "Supported Operating Systems and Hardware" on page 1-2.

End-of-Life and Product Life Cycle Policy Information

- For notification of changes in the release life cycle for Oracle products, as well as information about Oracle support for third-party products reaching end-of-life, see Oracle Product End-of-Life Announcements.
- For Oracle's product life cycle policy, see Oracle Product Life Cycle Policy.