



BEA WebLogic Adapter for CORBA

Release Notes

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BEA WebLogic Adapter for CORBA Release Notes

BEA WebLogic Adapter for CORBA Release 7.0
Date: October 2002

This document includes the following topics:

- About the BEA WebLogic Adapter for CORBA Release
- Supported Platforms
- Software Requirements
- Miscellaneous Issues
- Known Limitations
- Contacting BEA Customer Support

About the BEA WebLogic Adapter for CORBA Release

The BEA WebLogic Adapter for Common Object Request Broker Architecture (CORBA) allows CORBA-based applications on WebLogic Server and WebLogic Integration to communicate with other applications integrated by the WebLogic Integration adapter suite. Access to CORBA environments is provided through the Adapter, which uses CORBA Interface Definition Language (IDL) entries to generate local, remote-based services. Applications make calls to a remote service that, in turn, invokes a CORBA method and receives return information from the CORBA method.

A CORBA object provides distributed object capability between applications in a network. Although a CORBA object is implemented using a standard programming language, each CORBA object has a clearly defined interface, defined using the CORBA Interface Definition Language (IDL). The definition of a CORBA object is consistent with the definition presented by the Object Management Group (OMG). OMG has a number of specifications and documents that provide complete details on objects. For more information, visit the OMG web site, located at <http://www.omg.org>.

Supported Platforms

The BEA WebLogic Adapter for CORBA release consists of two components that are available on various platforms. For the purpose of platform coverage the components are divided into:

- BEA WebLogic Adapter for CORBA
- BEA Application Explorer

BEA WebLogic Adapter for CORBA

As of the release date, the BEA WebLogic Adapter for CORBA is available on the following platforms:

- Sun Solaris 7 (with Sun recommended patches)
- Sun Solaris 8 (with Sun recommended patches)
- Microsoft Windows 2000 Professional with Service Pack 2
- Microsoft Windows 2000 Server with Service Pack 2
- Microsoft Windows 2000 Advanced Server with Service Pack 2
- Microsoft Windows NT 4.0 with Service Pack 6 or later
- Hewlett-Packard HP-UX 11.0
- Hewlett-Packard HP-UX 11i

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

<http://edocs.bea.com/wladapters/docs70/support/index.html>

BEA Application Explorer

As of the release date, the BEA Application Explorer is available on the following platforms:

- Sun Solaris 7 (with Sun recommended patches)
- Sun Solaris 8 (with Sun recommended patches)
- Microsoft Windows 2000 Professional with Service Pack 2
- Microsoft Windows 2000 Server with Service Pack 2
- Microsoft Windows 2000 Advanced Server with Service Pack 2
- Microsoft Windows NT 4.0 with Service Pack 6 or later
- Hewlett-Packard HP-UX 11.0
- Hewlett-Packard HP-UX 11i

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

<http://edocs.bea.com/wladapters/docs70/support/index.html>

Software Requirements

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

- BEA WebLogic Server and WebLogic Integration.

The software can be downloaded from the BEA Web site at

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

As of the release date, the following versions are supported:

- WebLogic Platform 7.0 with Service Pack 1 (WebLogic Server and WebLogic Integration components must be installed)

The information required to install WebLogic Platform 7.0 can be found at

<http://edocs.bea.com/platform/docs70/install/index.html>

- WebLogic Server 6.1 with Service Pack 2 and WebLogic Integration 2.1 with Service Pack 1

The information required to install WebLogic Server 6.1 can be found at

<http://edocs.bea.com/wls/docs61/install/index.html>

The information required to install WebLogic Integration 2.1 can be found at

http://edocs.bea.com/wlintegration/v2_1sp/index.html

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

<http://edocs.bea.com/wl.adapters/docs70/support/index.html>

- Java Runtime environment 1.3.1 or higher
- Web browser
 - Netscape 6.2 or higher
 - Internet Explorer 5.x or higher
- JacORB 1.4.1
- Orbix 2000 1.2
- VisiBroker for Java 4.5
- IIOP 1.1, 1.2
- GIOP 1.2

Miscellaneous Issues

When using the BEA WebLogic Adapter for CORBA, you might encounter some of the following issues that can make the adapter or an adapter component inoperable. The following table describes these issues and provides a workaround, where possible.

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

Table 1. Miscellaneous Issues

1 Support for Visibroker 4.5.1	
Problem	VisiBroker's Interface Respository (IR) and the related Dynmic Interface Invocation (DII) methods on which the BEA WebLogic Adapter for CORBA is dependent are not compatible with JDK 1.3 and above.
Platform	VisiBroker 4.5.1 on all platforms

Table 1. Miscellaneous Issues (Continued)

Workaround	<p>A special version of the adapter's CORBA Agent has been compiled under JDK 1.2.2. These classes can be run under BEA WebLogic Server and WebLogic Integration by following these steps:</p> <p>Edit your classpath in your <i>SetDomainTypeData.cmd</i> file to include the special <i>vbj.zip</i> at the head of the path; that is,</p> <ul style="list-style-type: none">■ on Windows: <pre>SET SVRCP=%SVRCP%;D:\Adapters\BEA_CORBA_1_0.jar SET SVRCP=D:\adapters\vbj.zip;%SVRCP%;D:\apps\vbroker\lib\vbjorb.jar</pre>■ on Unix: <pre>\$SVRCP=\$SVRCP:/opt/bea/adapters/ BEA_CORBA_1_0.jar \$SVRCP=\$SVRCP:/opt/bea/adapters/ vbj.zip:\$SVRCP:/opt/vbroker/lib/vbjorb.jar</pre> <p>Note: Here, <i>DomainType</i> is the type of the domain. For example, if your domain is configured to support the development of solutions that employ the full range of WebLogic Integration functionality, it contains the <i>SetWliDomainData.cmd</i> file.</p>
2	Interface Repository IOR File
Problem	<p>The BEA WebLogic Adapter for CORBA requires that an IOR file be available to locate the reference to the Interface Repository. VisiBroker's IOR file is not automatically output to file.</p>
Platform	<p>All platforms</p>
Workaround	<p>Modify your IR startup procedure to automatically output the startup IOR reference to a file. For example, use the following command to automatically output the IOR reference to a file: <i>ir.ior</i>:</p> <pre>irep myIr >ir.ior</pre>

Table 1. Miscellaneous Issues (Continued)

3	VisiBroker Naming Context
Problem	Supplying a naming context for your application to use a named Naming Service
Platform	VisiBroker 4.5.1 on All platforms
Workaround	<p>Use the -DSVCnameroot option to specify which VisiBroker Naming Service instance (especially important if several unrelated naming service instances are running) you want to bootstrap; that is, edit your startWebLogic.cmd file to include the -DSVCnameroot=myNamespace option on the line invoking java.</p> <p>For example, on Windows:</p> <pre>%JAVA_HOME%\bin\java %DB_JVMARGS% -Xmx256m -DSVCnameroot=myNameSpace -classpath %SVRCP% -Dea.home=%BEA_HOME% -Dweblogic.home=%WL_HOME% -Dweblogic.system.home=%WLI_HOME% -Dwli.bpm.server.evaluator.supportsNull=false -Dweblogic.Domain=eaidomain -Dweblogic.management.password=security -Dweblogic.Name=myserver -Dweblogic.RootDirectory=%WLI_HOME% -Djava.security.policy=%WL_HOME%\lib\weblogic. policy -Dweblogic.management.discover=false weblogic.Server</pre>

Table 1. Miscellaneous Issues (Continued)

4	Namespace Prefix in manifest.xml
Problem	<p>Each schema repository has a manifest that describes the repository and its schemas. This repository manifest is stored as an XML file named <code>manifest.xml</code>.</p> <p>If you manually create an XML schema, the namespace prefix must be <code>xsd:</code> rather than <code>xs:</code> in the manifest file.</p>
Platform	All
Workaround	<p>Use the <code>xsd:</code> namespace prefix for XML schemas as shown in the following listing:</p> <pre><?xml version="1.0" encoding="UTF-8"?> <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"> <xsd:element name="OrderIn"> <xsd:complexType> <xsd:sequence> <xsd:element ref="Store_Code"/> <xsd:element ref="LineItem" maxOccurs="unbounded"/> </xsd:sequence> </xsd:complexType> </xsd:element></pre>

Known Limitations

This section describes limitations in this release of the BEA WebLogic Adapter for CORBA and includes possible workarounds, where applicable.

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

Please contact BEA Customer Support for assistance in tracking any unresolved problems. For contact information, see the section “Contacting BEA Customer Support.”

Table 2. Known Limitations

1	The adapter components are not fully deployed upon initial deployment, despite all the deployed flags indicating deployment has occurred
Problem	After you deploy the adapter as described in “Installing the Adapter With WebLogic Integration 7.0” in the <i>BEA WebLogic Adapter for CORBA Installation and Configuration Guide</i> , the adapter is not fully deployed, even though the WebLogic Server Administration Console indicates Deployed=True for each required component.
Platform	WebLogic Integration 7.0 with Sun Solaris 7 or 8 WebLogic Integration 7.0 with Hewlett-Packard HP-UX 11.0 or 11i
Workaround	To properly deploy the adapter components, click Redeploy. This is an issue that will be corrected in a future patch of WebLogic Server. Please contact BEA Customer Support for further information.

Contacting BEA Customer Support

If you have any questions about this version of the BEA WebLogic Adapter for CORBA, or if you have problems installing and running the BEA WebLogic Adapter for CORBA, contact BEA Customer Support through BEA WebSupport at www.beasys.com. You can also contact Customer Support by using the contact information provided on the Customer Support Card, which is included in the product package.

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

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