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BEA WebLogic Java Adapter for Mainframe™

Release Notes

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BEA WebLogic Java Adapter for Mainframe Release Notes

Part Number	Date	Software Version
870-001037-006	August 2002	5.1
	January 2004	5.1 (Updated with support for WebLogic Server 8.1.)
	April 2004	5.1 (Added certification of CRM for use with version 7.0.2.4 of the DCL SNAP-IX SNA stack on Solaris 9.)

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A. WebLogic Server 8.1 Certification

BEA WebLogic Java Adapter for Mainframe Release Notes

BEA WebLogic Java Adapter for Mainframe Version: 5.1
Date: April 2004

This document provides the latest release information about the BEA WebLogic Java Adapter for Mainframe product, hereafter referred to as WebLogic JAM.

The following information is provided in this document:

- About BEA WebLogic Java Adapter for Mainframe

- Software Prerequisites

- Supported Platforms for WebLogic JAM Components

- Miscellaneous Issues

- Where to Get Product Documentation

- Contacting BEA Customer Support

Note: As of January 2004, BEA WebLogic Java Adapter for Mainframe is certified for use with BEA WebLogic Server 8.1. For information about the WebLogic Server 8.1 certification, including the Supported Platforms for WebLogic JAM Components, see the Appendix to these Release Notes: Appendix A, "WebLogic Server 8.1 Certification."

About BEA WebLogic Java Adapter for Mainframe

WebLogic JAM is a set of software components that provide seamless bidirectional interactions between Java applications running on a WebLogic Server platform and either Customer Information Control System (CICS) applications or Information Management System (IMS) applications running on a mainframe. With CICS, the Java application request/response operations interact using Distributed Program Links (DPLs). With IMS, the Java application request/response operations interact using implicit Application Program-to-Program Communication (APPC) support.

The WebLogic JAM software components include the following:

- Gateway

- CRM

The JAM Gateway and CRM are runtime components that provide the bidirectional interaction. The eGen Application Generator is a development tool that is used for application development and data transformation from existing mainframe applications. The JAM Console provides an easy to use interface to administer and configure the connectivity between application servers via the JAM product.

What's New and Improved in This Release

The following features are part of BEA WebLogic Java Adapter for Mainframe 5.1:

- BEA WebLogic Server Support

  BEA WebLogic JAM is used in conjunction with WebLogic Server to integrate existing legacy mainframe applications with applications developed for WebLogic Server. For specific version support, see "Software Requirements".

■ JCA Adapter

WebLogic JAM JCA Adapter provides a client interface using standard JCA
system contracts to access WebLogic JAM services. The WebLogic JAM JCA
Adapter is a JCA 1.0 compliant adapter which installs into the Connector
Container of WebLogic Server and provides a standard API interface to
WebLogic JAM services.

■ Remote Method Interface Configuration Subsystem

A Remote Method Interface (RMI) configuration subsystem allows you to
monitor and control the WebLogic JAM Gateway by a remote Java application.
WebLogic JAM provides such administrative capabilities through the
`com.bea.jam.Admin` utility. Using the features in the RMI subsystem, referred
to as the JAM Deployed Configuration feature, you can develop your own
custom administrative capabilities.

Product Packaging

The box containing the BEA WebLogic Java Adapter for Mainframe product includes
the following items:

■ Two CD-ROMs

● BEA WebLogic Java Adapter for Mainframe product software CD-ROM

● BEA WebLogic Java Adapter for Mainframe Online Documentation
CD-ROM

■ The following printed documents:

● *BEA WebLogic Java Adapter for Mainframe Release Notes*

● *BEA WebLogic Java Adapter for Mainframe Installation Guide*

● *BEA Software License and Limited Warranty* pamphlet

● *Customer Support Quick Reference* and *Other Important Information* cards

You can also access the BEA WebLogic Java Adapter for Mainframe online
documentation at http://edocs.bea.com/index.html

Software Prerequisites

The BEA WebLogic Java Adapter for Mainframe requires the following components in order to operate correctly:

- WebLogic Server 7.0

    Note: As of January 2004, BEA WebLogic Java Adapter for Mainframe is certified for use with BEA WebLogic Server 8.1. For information about the WebLogic Server 8.1 certification, including the Supported Platforms for WebLogic JAM Components, please see the Appendix to these Release Notes: Appendix A, "WebLogic Server 8.1 Certification."

- Java Virtual Machine (JVM) 1.3.1_02

Supported Platforms for WebLogic JAM Components

The following sections list the supported platforms for each of the WebLogic JAM components.

Supported Platforms for the WebLogic JAM Gateway

Table 1 lists the supported platforms for the WebLogic JAM Gateway.

Table 1 JAM Gateway Supported Platforms

Platform
HP-UX 11.00
Microsoft Windows 2000 Server
Microsoft Windows 2000 Advanced Server

Table 1 JAM Gateway Supported Platforms

Platform
Microsoft Windows NT Server 4.0 SP5
Solaris 7
Solaris 8

Supported Platforms and Required Stacks for the WebLogic JAM CRM

Table 2 lists the supported platforms and required stacks for the WebLogic JAM CRM.

Table 2 CRM Supported Platforms and Required Stacks

Platform	Stack
OS/390 Unix V2R8	OS/390 V2R8 SecureWay Communications Server
OS/390 Unix V2R9	OS/390 V2R9 SecureWay Communications Server
OS/390 Unix V2R10 (31-bit)	OS/390 V2R10 Communications Server
OS/390 MVS V2R8	OS/390 V2R8 SecureWay Communications Server
OS/390 MVS V2R9	OS/390 V2R9 SecureWay Communications Server
OS/390 MVS V2R10 (31-bit)	OS/390 V2R10 Communications Server
Solaris 7	DCL 7.0.2.2
Solaris 8	DCL 7.0.2.2
z/OS MVS V1R1.0 (31-bit)	z/OS V1R1.0 Communications Server
z/OS Unix V1R1.0 (31-bit)	z/OS V1R1.0 Communications Server
z/OS MVS V1R2.0 (31-bit)	z/OS V1R2.0 Communications Server
z/OS Unix V1R2.0 (31-bit)	z/OS V1R2.0 Communications Server
z/OS MVS V1R3.0 (31-bit)	z/OS V1R3.0 Communications Server

Table 2 CRM Supported Platforms and Required Stacks

Platform	Stack
z/OS Unix V1R3.0 (31-bit)	z/OS V1R3.0 Communications Server
z/OS MVS V1R4.0 (31-bit)	z/OS V1R4.0 Communications Server
z/OS Unix V1R4.0 (31-bit)	z/OS V1R4.0 Communications Server

SNA-Related Issues

This section includes APARs required for the CRM.

- IBM OS/390 V2R8

    - PQ28223, PQ28224 (General)
      UW69304 (APAR for Security)

Supported Mainframe Software

Table 3 lists the IBM Host software supported by WebLogic JAM.

Table 3 Supported Host Platforms

Vendor	Product	Version
IBM	OS/390	V2R8
IBM	OS/390	V2R9
IBM	OS/390	V2R10
IBM	zOS	V1R1.0
IBM	zOS	V1R2.0
IBM	zOS	V1R3.0
IBM	zOS	V1R4.0
IBM	CICS Transaction Server	1.3

Table 3 Supported Host Platforms

Vendor	Product	Version
IBM	CICS Transaction Server	2.1
IBM	CICS Transaction Server	2.2
IBM	IMS	7.1

Miscellaneous Issues

This section provides information about known limitations and fixed problems in the current release of WebLogic JAM.

Multiple Insert Support for IMS Applications

Previously, WebLogic JAM only supported integrating IMS applications that returned a single response message. WebLogic JAM utilizes IMS implicit APPC support to integrate IMS applications that issue DL/I calls. Previously WebLogic JAM could only support IMS applications that did a single DL/I ISRT call to return a response.

WebLogic JAM 5.x now supports multiple inserts. This feature allows WebLogic JAM to support standard IMS applications that return multiple response messages. WebLogic JAM aggregates the responses received from the IMS application and returns a single response to the calling client application. Each segment that is sent to JAM via a DL/I ISRT call is combined into a single response that is returned to the calling client application.

No additional configuration is required. This feature is supported automatically by WebLogic JAM. To take advantage of this feature, configure the IMS application as an APPC Service as described in the "Integrating Applications with WebLogic JAM" section of the BEA WebLogic Java Adapter for Mainframe *Configuration and Administration Guide*.

Known Limitations

This section describes limitations in the current BEA WebLogic Java Adapter for Mainframe release and includes possible workarounds, where applicable.

The table below lists a CR (Change Request) number for each problem. Refer to this number to conveniently track the solution as the problems are resolved.

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

1	CR062611	IE browser crashes when adding 17 CRM Links to DPL Service
	Problem	Internet Explorer browser crashes with internal error when attempting to add 17 CRM Links to DPL Service using the Administration Console. The problem happens on any 'Targets' page where items are selected from one list and moved into another list. This problem occurs with Internet Explorer version 5.00.2314.
	Platform	Microsoft Windows NT
	Workaround	Use Internet Explorer 5.00.2919 or higher.

Fixed Problems

This section describes known problems from the prior release of WebLogic JAM that have been fixed with the current release of the software. The following table lists a Case or CR (Change Request) number for each problem.

1	CR070852	The CRM crashes when the Gateway initiates using 2PC with RRS on IMS.
	Problem	When using 2PC with RRS on IMS and RRS is configured incorrectly, the CRM crashes when initiating the Gateway. The CRM was modified to handle the problem with an appropriate error message.

Platform	IBM OS/390

Where to Get Product Documentation

Documentation for this product is available from the following locations:

- On the BEA corporate Web site. From the BEA Home page at http://www.beasys.com, click on Product Documentation or go directly to the "e-docs" Product Documentation page at http://e-docs.beasys.com.

- On the BEA WebLogic Java Adapter for Mainframe Online Documentation CD. The documentation CD includes Web-browsable HTML and easy-to-print Adobe Acrobat PDF documentation for this product.

  To access the PDFs, open the BEA WebLogic Java Adapter for Mainframe documentation Home page, click the PDF files button and select the document you want to view or print. If you do not have the Adobe Acrobat Reader, you can get it for free from the Adobe Web site at http://www.adobe.com/.

Using the WebLogic Java Adapter for Mainframe Online Documentation

You can install the HTML files on your server or client, or leave them on the CD. If you copy the files to your system, you should maintain the directory structure that was provided on the CD. However, you can move that directory structure to any location. The files are located on the CDROM in the docs/jam/v51 directory. Note the filename path to the directory where you install them on your server or client.

The Online Documentation CD includes a Java search applet to help you find WebLogic Java Adapter for Mainframe topics in the documentation. To use the search capabilities, your browser must have Java support enabled. For information on limitations of the search capabilities, see "Documentation CD Search Applet Limitations."

To view the documentation, you need a Web browser that supports HTML 3.0 features including tables and frames. Netscape Navigator 4.0 or later or Microsoft Internet Explorer 4.0 or later are recommended. When you install the HTML files, they will be located in a directory on your system. You should keep the HTML files that are contained within a directory together. However, you can move that directory to any location.

Note: It is recommended that you locate the HTML browser and the HTML files on the same client or server device.

Accessing the Documentation

To begin viewing the online documentation, use one of the following methods to open the HTML file in a Web browser:

Use the following path to access the document from the CD.

Listing 1   Accessing Online Documentation from a CD

```
<cdrom>/doc/jam/v51/index.html
```

Use the following path to access the document installed to a Web server.

Listing 2   Accessing Online Documentation from a Web Server

```
http://(directory path to WebLogic Java Adapter for Mainframe HTML
files)/index.html
```

On UNIX systems, you may need to mount the CD before you are able to access the index.htm page. For mounting instructions on UNIX platforms, refer to the installation instructions in the WebLogic Java Adapter for Mainframe Online Documentation CD-ROM.

Printing the PDF File

You must have the Adobe Acrobat Reader to view and print the PDF file. If you do not have this reader, you can obtain it free of charge from the Adobe Systems Incorporated home site at www.adobe.com. (Please note that the WebLogic Java Adapter for Mainframe Documentation PDF page contains a hot link to this site.)

Printing from the Web Browser

You can print a copy of this document, one file at a time, from the Web browser. Before you print, make sure that the topic you want is displayed and *selected* in your browser. (To select a topic, click anywhere inside the frame you want to print. If your browser offers a Print Preview feature, you can use the feature to verify the topic you are about to print.)

Documentation CD Search Applet Limitations

The Online Documentation CD includes a Java search applet to help you find WebLogic Java Adapter for Mainframe topics. The following sections describe current limitations with the search applet.

Special Characters

The search applet does not find strings containing some special characters, such as slashes(/) and/or dollar signs ($). The Java search applet does find strings containing underscores (_) and periods (.). Attempts to search for strings with unsupported special characters result in a "No matches" message.

Microsoft Windows NT 4.0 SP3, Java Applets, and True Color

On Microsoft Windows NT 4.0 systems running Service Pack 3 (SP3), browser links to HTML pages containing Java applications hang if the system's Display Properties are set to `True Color`. This Microsoft Windows NT SP3 bug is a known problem and has a Microsoft support article, patch, and workaround. The problem might affect your

initial ability to use the Java search applet on a Microsoft Windows NT 4.0 system. However, you can work around this problem by assigning another value to the color palette, such as `16777216 Colors` or `65536 Colors`.

For more information about the problem and the Microsoft patch, see the Microsoft support article titled "Java Applets Cause IE 3.02 to Stop Responding w/ SP3." It is posted at the Microsoft Web site (`www.microsoft.com`) as article ID number Q168748 [winnt]. To access this article, use the following URL:

```
http://support.microsoft.com/support/kb/articles/q168/7/48.asp?FR
=0
```

Note: You may not be able to access this article without providing online profile information to the Microsoft Web site.

Although this article discusses the problem as it occurs in Microsoft Internet Explorer 3.02, it is relevant in this context because the same problem occurs in other browsers on the Microsoft Windows NT 4.0 SP3 platform. Read the article carefully, however, before applying the patch to an Windows NT 4.0 SP3 system.

UNC Path Names

The Java search applet uses a pre-compiled search database of topics. Because of the way the search database is built, you must adhere to one of the following options to use the documentation CD search feature:

- Use the CD on a local CD reader.

- Map a network drive to a remote, shared device that contains the CD or a copy of the CD's content; in your browser, use the network drive to find and open the `index.htm` file in the CD's top documentation directory.

- Copy the CD's content to a local drive on your system.

- Copy the CD's content to a Web server on your corporate Intranet. Make sure that `index.htm` is the default file name used by the Web server software. The Online Documentation CD contains a file called `index.htm`, which <is the home page> <or> <creates the framework> for the online documentation. The path name for this file on the CDs is `\doc\<product>\<version>\index.htm`.

  If your Web server software does not allow you to use a file named `index.htm`, make a copy of `index.htm` and rename the copy with the default file name you

must use, such as `default.htm`. Keep both the original `index.htm` file and your renamed copy of it in the same directory.

You cannot use the search applet if you have accessed the CD or a copy of its content through a Universal Naming Convention (UNC) path. For example, UNC paths are used by the Windows NT Network Neighborhood. The search applet does not interpret relative paths to the matched target `*.htm` pages because the UNC path is added to the beginning of each link. To use the documentation CD search feature, please use one of the four recommended methods listed earlier in this section.

Only the search applet's results list is affected by this UNC limitation. You can use UNC paths, such as accessing the documentation CD on a Network Neighborhood system's shared CD device, for all other relative hyperlinks on the CD.

Additional CD Search Tip

The search applet returns a list of HTML files that contain the search keyword(s) you enter. When you double click an entry in the search results list, the applet displays the target HTML file. To get the name of the book containing this HTML file, click the [TOP] hyperlink. The book's title page (which shows the name of the book) is displayed. You can then click the Back button in the browser to return to the HTML file that was originally displayed.

Browser Version and Platform Limitations for the Search Applet

Testing has shown that the Java search applet performs well on:

- Microsoft Windows NT 4.0 systems running Netscape 4.x, or Microsoft Internet Explorer 4.x

- Microsoft Windows 95 systems running Netscape 4.x, or Microsoft Internet Explorer 4.x

- Microsoft Windows 98 systems running Netscape 4.x, or Microsoft Internet Explorer 4.x

- Sun Solaris systems running Netscape 4.x, or Microsoft Internet Explorer 4.x

Note: These browser recommendations are the minimum version level required for the Search Applet. Browser support for WebLogic Server is higher than the browser support referenced here. Refer to your WebLogic Server documentation for more information about WebLogic Server browser support.

Browser Error on UNIX Platforms

On some UNIX platforms, you may encounter a browser error message similar to the following:

```
Unable to start a java applet: Can't find 'java40.jar' in your
CLASSPATH. Read the release notes and install 'java40.jar' properly
before restarting.
```

If the search applet does not work on your UNIX platform, try using the latest Netscape browser for the platform and add the Netscape Java Archive (JAR) file to your CLASSPATH environment variable. The path to the JAR file is in the directory in which you installed Netscape. For example:

```
CLASSPATH=mytools/netscape/communicator/program/java/classes/java
40.jar
```

After you revise the CLASSPATH variable, exit Netscape and then restart Netscape in the updated environment. When you access the search page, the search feature should work properly.

Contacting BEA Customer Support

Your feedback on the BEA WebLogic Java Adapter for Mainframe documentation is important to us. Send us e-mail at **docsupport@bea.com** if you have questions or comments. Your comments will be reviewed directly by the BEA professionals who create and update the WebLogic Java Adapter for Mainframe documentation.

In your e-mail message, please indicate that you are using the documentation for the BEA WebLogic Java Adapter for Mainframe 5.1 release.

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

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

- Your name, e-mail address, phone number, and fax number

- Your company name and company address

- Your machine type and authorization codes

- The name and version of the product you are using

- A description of the problem and the content of pertinent error messages

A WebLogic Server 8.1 Certification

WebLogic Server 8.1 Certification for BEA WebLogic Java Adapter for Mainframe 5.1
Date: April 2004

This appendix was added to the BEA WebLogic Java Adapter for Mainframe (JAM) 5.1 Release Notes in January 2004 and updated in April 2004. It describes the additional WebLogic version and platforms on which the Java Adapter for Mainframe 5.1 is certified.

New in This Certification

The JAM 5.1 product is now certified for the WebLogic Server 8.1 on the platforms indicated in "Supported Platforms for WebLogic JAM Components" on page -2.

For information about additional fixes in this release, see "Problems Fixed in This Release" on page -4.

Not Supported in This Certification

The following items describe what is not supported in this certification:

- JAM 5.1 does not support the WebLogic Integration product on WebLogic Server 8.1.

- No new functionality has been added to the JAM 5.1 product.

Prerequisites

The following WebLogic Patch must be applied to your WebLogic Server 8.1 environment before running the Java Adapter for Mainframe 5.1 product: CR129439_810.

Please consult the BEA WebLogic Java Adapter for Mainframe 5.1 Release Notes for additional prerequisites.

Supported Platforms for WebLogic JAM Components

The following sections list the supported platforms for each of the WebLogic JAM components

WebLogic Server 8.1 Certification—Supported Platforms for the WebLogic JAM Gateway

The following table lists the platforms and associated version of the Java Development Kit (JDK) on which this version of WebLogic JAM Gateway is certified.

Table A-1 Supported Platforms for the WebLogic JAM Gateway

Platform	JDK Version
HP-UX 11.0	SunSoft 1.4.1_02
Microsoft Windows 2000 Server	SunSoft 1.4.1_02
Microsoft Windows 2000 Server	Jrockit 8.1
Microsoft Windows 2000 Advanced Server	SunSoft 1.4.1_02
Microsoft Windows 2000 Advanced Server	Jrockit 8.1
Solaris 8	SunSoft 1.4.1_02
Solaris 9	SunSoft 1.4.1_02

WebLogic Server 8.1 Certification—Supported Platforms and Required Stacks for the WebLogic JAM CRM

The following table lists the supported platforms and required stacks for the WebLogic JAM CRM.

Table A-2 Required Stacks for WebLogic JAM CRM

Platform	Stack
OS/390 Unix V2R8	OS/390 V2R8 SecureWay Communications Server
OS/390 Unix V2R9	OS/390 V2R9 SecureWay Communications Server
OS/390 Unix V2R10 (31-bit)	OS/390 V2R10 Communications Server
OS/390 MVS V2R8	OS/390 V2R8 SecureWay Communications Server
OS/390 MVS V2R9	OS/390 V2R9 SecureWay Communications Server
OS/390 MVS V2R10 (31-bit)	OS/390 V2R10 Communications Server
z/OS MVS V1R1.0 (31-bit)	z/OS V1R1.0 Communications Server
z/OS Unix V1R1.0 (31-bit)	z/OS V1R1.0 Communications Server
z/OS MVS V1R2.0 (31-bit)	z/OS V1R2.0 Communications Server
z/OS Unix V1R2.0 (31-bit)	z/OS V1R2.0 Communications Server
z/OS MVS V1R3.0 (31-bit)	z/OS V1R3.0 Communications Server
z/OS Unix V1R3.0 (31-bit)	z/OS V1R3.0 Communications Server
z/OS MVS V1R4.0 (31-bit)	z/OS V1R4.0 Communications Server
z/OS Unix V1R4.0 (31-bit)	z/OS V1R4.0 Communications Server
Solaris 8	DCL 7.0.2.2
Solaris 9	DCL 7.0.2.4

Miscellaneous Issues

This section provides information about known limitations and fixed problems in the current release of WebLogic JAM.

Solaris 9 DCL 7.0.2.4 SNA Primary Group Requirement

Solaris 9 DCL 7.0.2.4 includes an authorization test that requires each application to start under a user ID having SNA as its primary group. The WebLogic JAM CRM must comply with this requirement.

Problems Fixed in This Release

This section describes known problems from the prior release of WebLogic JAM that have been fixed with the current release of the software. The following table lists a BEA Case or Change Request (CR) number for each problem.

Table A-3 Problems Fixed in This Release

Change Request Number	Description
CR103763	**Problem**: Default codepage is used even when a different codepage is designated on the output dataview. The egen code generator was changed to correctly use the user specified codepage to translate the output from EBCDIC to UNICODE.
CR108888	**Problem**: The XML generated by the JAM egen tool does not work in XMLUnloader with the XML Spy product. The JAM egen product was updated to generate the DTDs required for the XML Spy product.
CR120587	**Problem**: JAM JCA threw an error when using an input XML Record. The JCA was changed to fully support the XML Record type.
CR121012	**Problem**: CRM transactional tasks are queued up but not processed in certain load conditions. The CRM now successfully processes the queued items.