



BEA WebLogic Integration™

Release Notes

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4. Problems Fixed in This Release

1 Introduction

This document provides release note information on the WebLogic Integration 8.1 Service Pack 2 release. This section includes the following topics:

- [What Is New in BEA WebLogic Integration 8.1 Service Pack 2](#)
- [Platform Support and System Requirements](#)
- [Adapters](#)
- [Tutorials](#)

For WebLogic Platform release note information, go to the online Release Notes available at the following URL:

<http://edocs.bea.com/platform/docs81/interm/relnotes.html>

What Is New in BEA WebLogic Integration 8.1 Service Pack 2

The WebLogic Integration 8.1 Service Pack 2 release adds several performance and feature enhancements, including the following:

- Synchronous start of Message Broker subscribers

WebLogic Integration supports the ability to start a business process as the result of receiving a synchronous message from a Message Broker channel. A synchronous subscription start causes the subscribed business process to run in the same transaction as the publisher. For more information, see “Subscription

Start (Synchronous),” in the WebLogic Workshop Online Help, at the following URL:

<http://e-docs.bea.com/workshop/docs81/doc/en/integration/wfguide/wfguideStartSyncSub.html>

■ JPD proxy

WebLogic Integration now provides a JPD proxy as a means of allowing messages to be sent to a business process from external Java clients over RMI. For more information, see “Calling Business Processes,” in the WebLogic Workshop Online Help, at the following URL:

<http://e-docs.bea.com/workshop/docs81/doc/en/integration/howdoi/howJpdProxy.html>

■ RosettaNet Certification

WebLogic Integration 8.1 Service Pack 2 has passed RosettaNet certified compliance testing. It now complies with the following RosettaNet standards:

- PIP3A4 V02.02.00
- PIP3B2 V01.01.00

The *Tutorial: Building RosettaNet Solutions* has been updated to reflect this certification. The tutorial contains two implementation examples of PIP3A4 and PIP3B2, including how these PIPs initiate a Notification of Failure using PIP0A1. The tutorial is available at the following URL:

<http://edocs.bea.com/wli/docs81/tptutorial/rosettanet.html>

For more information about what is new in the WebLogic Platform 8.1 Service Pack 2 release, go to the online Release Notes available at the following URL:

<http://edocs.bea.com/platform/docs81/interm/relnotes.html>

For a list of problems fixed in the WebLogic Integration 8.1 Service Pack 2 release, see “Problems Fixed in This Release” on page 4-1.

Platform Support and System Requirements

For information on platform support, including hardware and software requirements, see the Supported Configurations page at the following URL:

<http://e-docs.bea.com/platform/docs81/support/index.html>

For detailed information about platforms supported by BEA WebLogic Server, see the Supported Configurations page at the following URL:

<http://e-docs.bea.com/wls/certifications/index.html>

Adapters

The application integration framework provides the following key features to enable the integration of diverse enterprise systems:

- Standards-based architecture for hosting J2EE Connector Architecture (J2EE-CA) based adapters that connect enterprise applications to WebLogic Server.
- Application views for both event and service adapters.

For more information on adapters supported in this release, see:

<http://e-docs.bea.com/wladapters/docs81/index.html>

To download the adapters, use the following URL:

http://commerce.bea.com/products/weblogicadapters/wl_adapter_home.jsp

Tutorials

To get hands-on experience with WebLogic Integration 8.1, we recommend that you try out the tutorials listed in this section. In addition, you may want to try out the WebLogic Workshop tutorials which are provided at the following URL:

<http://e-docs.bea.com/workshop/docs81/doc/en/workshop/guide/navTutorials.html>

Tutorials and Samples for WebLogic Integration

WebLogic Integration 8.1 Service Pack 2 provides the following tutorials and samples:

- Tutorial: Building Your First Business Process

<http://e-docs.bea.com/workshop/docs81/doc/en/integration/tutorial/tutWLIProcessIntro.html>

- Tutorial: Building Your First Data Transformation

<http://e-docs.bea.com/workshop/docs81/doc/en/integration/dttutorial/tutWLIDataTransIntro.html>

- Tutorial: Building a Worklist Application

<http://e-docs.bea.com/wli/docs81/wlitutorial/index.html>

- Tutorials for Trading Partner Integration, which includes:

- Tutorial: Building ebXML Solutions

<http://e-docs.bea.com/wli/docs81/tptutorial/ebxml.html>

- Tutorial: Building RosettaNet Solutions

<http://e-docs.bea.com/wli/docs81/tptutorial/rosettanet.html>

Note: The code for the Trading Partner Integration tutorials is available for download from the dev2dev Web site at the following URL:

<http://dev2dev.bea.com/codelibrary/code/tptutorial.jsp>

- Example: ebXML Security Configuration

http://edocs.bea.com/wli/docs81/tpintro/ebXMLSec_appx.html

- Example: RosettaNet Security Configuration

http://edocs.bea.com/wli/docs81/tpintro/RNSec_appx.html

- Non-XML data mapping sample

<http://edocs.bea.com/workshop/docs81/doc/en/integration/samples/sampleMap.html>

- Using the Suppressible attribute for a static subscription sample

<http://edocs.bea.com/workshop/docs81/doc/en/integration/samples/sampleSuppressible.html>

2 Upgrading from WebLogic Integration 8.1 to SP2

This section provides information on upgrading the initial release of BEA WebLogic Integration 8.1 to BEA WebLogic Integration 8.1 Service Pack 2. This section includes the following topics:

- [Ways to Upgrade WebLogic Integration 8.1](#)
- [Upgrading Domains](#)
- [Upgrading Databases](#)
- [Compatibility Information](#)

Note: For information about upgrading from previous releases of WebLogic Integration to WebLogic Integration 8.1, see *WebLogic Integration 8.1 Upgrade Guide* at the following URL:

<http://edocs.bea.com/wli/docs81/upgrade/index.html>

Ways to Upgrade WebLogic Integration 8.1

WebLogic Integration 8.1 SP2 is installed as part of WebLogic Platform 8.1 SP2. You can upgrade from WebLogic Integration 8.1 to WebLogic Integration 8.1 SP2 in the following ways:

- A new installation of WebLogic Integration 8.1 SP2 that is separate from the existing WebLogic Integration 8.1 installation. When installing WebLogic Integration 8.1 SP2 in this manner, you should install it in a separate home directory from the existing WebLogic Integration 8.1 installation. For this type of installation, you use either the WebLogic Platform SP2 Net Installer or the WebLogic Platform Package 8.1 Installer for your operating system.

For information about upgrading WebLogic Platform 8.1 SP2 as a separate installation, see *Installing WebLogic Platform* at the following URL:

<http://edocs.bea.com/platform/docs81/install/index.html>

- An upgrade installation of WebLogic Integration 8.1 SP2 that is installed over the existing WebLogic Integration 8.1 installation. For this type of installation, you should use Smart Update.

For information about upgrading WebLogic Platform 8.1 SP2 as an upgrade installation, see “Installing Service Packs and Rolling Patches” in *Installing WebLogic Platform* at the following URL:

<http://edocs.bea.com/platform/docs81/install/update.html>

Upgrading Domains

Domains created in WebLogic Integration 8.1 must be upgraded to run in WebLogic Integration 8.1 SP2. To help you upgrade your domains, upgrade scripts are included in WebLogic Integration 8.1 SP2. These scripts facilitate upgrading domains, including those domains created with the BEA WebLogic 8.1 Configuration Wizard.

This section includes information on the following topics:

- [Prerequisites](#)

- [Upgrading a Single Node Domain](#)
- [Upgrading a Clustered Domain](#)

Prerequisites

This section contains information you should be aware of before upgrading WebLogic Integration 8.1 to WebLogic Integration 8.1 SP2.

Ant

To use the upgrade scripts, you must use Ant 1.5 or later. Ant is part of the WebLogic Platform installation. To put Ant in your system path, complete the following steps:

1. Go to `BEA_HOME/weblogic81/common/bin` directory.

In the preceding line, *BEA_HOME* represents the WebLogic Platform Home.

2. Enter the following:

UNIX with Bash: `./commEnv.sh`

Windows: `commEnv.cmd`

Domains Running In Production Mode Without PointBase

For WebLogic Integration 8.1 domains running in production mode without the PointBase database, the `nopointbase` option must be passed to `startWebLogic.cmd` or `startWebLogic.sh`. Otherwise, the server will not start correctly; WebLogic Integration 8.1 enables PointBase even when it is not used by the configuration.

Upgrading an Application Using an Application Integration Control

For an application using an Application Integration control that was originally deployed using the WebLogic Workshop auto-deploy feature, you must first undeploy the application and then redeployed using the WebLogic Integration Administration Console or the command-line deployer.

Upgrading a Single Node Domain

To upgrade a single node domain generated in WebLogic Integration 8.1 to WebLogic Integration 8.1 SP2, complete the following steps:

Note: `BEA_HOME` represents the WebLogic Platform Home.

1. For the domain being upgraded, shut down any running instances of WebLogic Server.
2. Locate the `options.properties.sample` file in the following directory:
`BEA_HOME/weblogic81/integration/upgrade`
3. Using the `options.properties.sample` file as a template, create an `options.properties` file for your upgrade. You must set the correct values for the following three non-optional properties:
 - `domain.path` (Path of the domain to upgrade.)
 - `beahome.1.path` (Path to the WebLogic Integration 8.1 installation.)
 - `beahome.2.path` (Path to the WebLogic Integration 8.1 SP2 installation.)

Note: Use “/” as a file separator.

Windows example: If WebLogic Integration 8.1 is installed on `C:/bea`, WebLogic Integration 8.1 SP2 is installed on `C:/beaSP2`, and the WebLogic Integration 8.1 domain to upgrade is located at `C:/bea/user_projects/domains/integration`, you would set these properties as follows:

- `domain.path=C:/bea/user_projects/domains/integration`
- `beahome.1.path=C:/bea`
- `beahome.2.path=C:/beaSP2`

UNIX example:

- `domain.path=/home/bea/user_projects/domains/integration`
- `beahome.1.path=/home/bea`
- `beahome.2.path=/home/beaSP2`

Note: BEA recommends that you use the option `backup=true`.

4. The upgrade scripts are located in the following directory:

`BEA_HOME/weblogic81/integration/upgrade`

5. Remove all instances of the directory `.wlnotdelete` in your domain.

6. Run the upgrade script for the domain that you have created:

```
ant -f domain_upgrade.xml upgrade -Dremove.b2b.shutdown=false
-Doptions.properties=your_options_file
```

Note: The `-Dremove.b2b.shutdown=false` option does not remove the `WLI-B2B Shutdown` class entry from the domain's `config.xml`. You need to perform this step manually.

7. Before starting the WebLogic Integration 8.1 SP2 server in the upgrade domain, you must upgrade your databases. See “Upgrading Databases” on page 2-8.

Note: For more information about domains, see System Administration in the WebLogic Server documentation at the following URL:

<http://e-docs.bea.com/wls/docs81/admin.html>

Upgrading a Clustered Domain

Upgrading a clustered domain requires that you first run the upgrade clustered domain script and then manually create the distributed queues and modify the error queues for each distributed member.

To run the upgrade script for a clustered domain that was generated in the WebLogic Integration 8.1 Configuration Wizard for compatibility with WebLogic Integration 8.1 SP2, complete the following steps:

Note: `BEA_HOME` represents the WebLogic Platform Home.

1. For the domain being upgraded, shut down any running instances of WebLogic Server.
2. Locate the `options.properties.sample` file in the following directory:

`BEA_HOME/weblogic81/integration/upgrade`

3. Using the `options.properties.sample` file as a template, create an `options.properties` file for your upgrade. You must set the correct values for the following three non-optional properties:

- `domain.path` (Path of the domain to upgrade.)
- `beahome.1.path` (Path to the WebLogic Integration 8.1 installation.)
- `beahome.2.path` (Path to the WebLogic Integration 8.1 SP2 installation.)

Note: Use “/” as a file separator.

Windows example: If WebLogic Integration 8.1 is installed on `C:/bea`, WebLogic Integration 8.1 SP2 is installed on `C:/beaSP2`, and the WebLogic Integration 8.1 domain to upgrade is located at `C:/bea/user_projects/domains/integration`, you would set these properties as follows:

- `domain.path=C:/bea/user_projects/domains/integration`
- `beahome.1.path=C:/bea`
- `beahome.2.path=C:/beaSP2`

UNIX example:

- `domain.path=/home/bea/user_projects/domains/integration`
- `beahome.1.path=/home/bea`
- `beahome.2.path=/home/beaSP2`

Note: BEA recommends that you use the option `backup=true`.

4. The upgrade scripts are located in the following directory:

`BEA_HOME/weblogic81/integration/upgrade`

5. Remove all instances of the directory `.wlnotdelete` in your domain.

6. Run the upgrade script for the domain that you have created:

```
ant -f domain_upgrade.xml upgrade -Dremove.b2b.shutdown=false  
-Doptions.properties=your options file -Dsingle.node=false
```

Note: The `-Dremove.b2b.shutdown=false` option does not remove the WLI-B2B Shutdown class entry from the domain’s `config.xml`. You need to perform this step manually.

7. Before manually creating the distributed queues and modifying the error queues for each distributed member, you must upgrade your databases. This is required for the WebLogic Integration 8.1 SP2 server to start up correctly. See [“Upgrading Databases” on page 2-8](#).

Note: For information about distributed queues, see the WebLogic Server Administration Console Online Help at the following URL:
<http://e-docs.bea.com/wls/docs81/ConsoleHelp/index.html>.

To finish upgrading your clustered domain, perform the following steps on the upgraded domain:

Note: You should be familiar with working with clustered domains before performing these steps. For more information about clustered domains, see System Administration in the WebLogic Server documentation at the following URL:

<http://e-docs.bea.com/wls/docs81/admin.html>

1. Start the WebLogic Integration 8.1 SP2 server for your domain.
2. Create the following distributed queues from the WebLogic Server Administration Console and distribute them on each Managed Server in the cluster.

`wli.internal.tracking.buffer_error`
`wli.internal.instance.info.buffer`
`wli.internal.instance.info.buffer_error`
3. For each distributed member of `wli.internal.instance.info.buffer`, set the error destination queue to `wli.internal.info.buffer_error`.
4. For each distributed member of `wli.internal.tracking.buffer`, set the error destination queue to `wli.internal.tracking.info.buffer_error`.
5. Modify the following attributes on error queues:
 - a. For each distributed member of
`wli.internal.instance.info.buffer_error`, set
`RedeliveryDelayOverride="5000" RedeliveryLimit="1"`.
 - b. For each distributed member of
`wli.internal.tracking.info.buffer_error`, set
`RedeliveryDelayOverride="5000" RedeliveryLimit="200"`.

Upgrading Databases

The database schemas in WebLogic Integration 8.1 SP2 have changed from the initial release of WebLogic Integration 8.1. To update your databases, you need to run the script for the databases that you use. Scripts are provided for the following databases:

- Oracle 8.1.7 and 9.2.0
- PointBase 4.4
- Sybase 12.5

To upgrade databases from WebLogic Integration 8.1 to WebLogic Integration 8.1 SP2, complete the following steps:

1. The database upgrade scripts are located in the following directory:

BEA_HOME\weblogic81\integration\dbscripts\db_directory

In the preceding line, *BEA_HOME* represents the WebLogic Platform Home
db_directory represents oracle, pointbase, or sybase.

2. Run the following database upgrade scripts:

- `upgrade_archive.sql`
- `upgrade_runtime.sql`

3. Start WebLogic Integration 8.1 SP2 server from the upgraded domain.

Compatibility Information

JMS Bridge Interoperability

In some cases, messages may not be sent between servers in clustered domains. This occurs when different versions of WebLogic server exist in each clustered domain. The following server combinations are affected:

- [WebLogic Integration 7.0 SP2 Cluster – WebLogic Integration 8.1 SP2 Cluster](#)
- [WebLogic Integration 8.1 Cluster – WebLogic Integration 8.1 SP2 Cluster](#)
- [WebLogic Integration 7.0 SP1 Cluster – WebLogic Integration 8.1 SP2 Cluster](#)

For each combination, two types of scenarios exist:

- **Normal**—Both sides of the bridge are running normally and sending JMS messages back and forth through their respective JMS bridges.
- **Recovery**—Restarting a Managed Server on one side of the bridge.

Note: For information about the patches discussed in this section, contact BEA Customer Support at the following URL:

<http://www.bea.com/support/contact.html>

WebLogic Integration 7.0 SP2 Cluster – WebLogic Integration 8.1 SP2 Cluster

WebLogic Integration 7.0 SP2

Normal Scenario

Problem: A JMS Security Exception occurs in the server when starting the JMS bridge if the JMS adapter is deployed to the cluster.

Solution: Apply patch for CR112344 to the WebLogic server.

Recovery Scenario

2 *Upgrading from WebLogic Integration 8.1 to SP2*

Problem: In some cases, messages remain in the source queue of the JMS bridge in the sending-side cluster after restarting a Managed Server on the receiving side cluster.

Solution: Apply patch for CR128596 to the WebLogic server.

WebLogic Integration 8.1 SP2

Normal Scenario

Problem: A Null Pointer Exception occurs in the server when starting the JMS bridge if the JMS adapter is deployed to the cluster.

Workaround (from CR125979): Deploy the messaging bridge adapter `jms-xa-adp.rar` to all individually Managed Servers, not to the cluster.

Recovery Scenario

Problem: In some cases, messages remain in the source queue of the JMS bridge in the sending-side cluster after restarting a Managed Server on the receiving side cluster.

Solution: Apply patch for CR128596 to the WebLogic server.

WebLogic Integration 7.0 SP4 Cluster – WebLogic Integration 8.1 SP2 Cluster

WebLogic Integration 7.0 SP4

Recovery Scenario

Problem: In some cases, messages remain in the source queue of the JMS bridge in the sending-side cluster after restarting a Managed Server on the receiving side cluster.

Solution: Apply patch for CR128596 to the WebLogic server.

WebLogic Integration 8.1 SP2

Normal Scenario

Problem: A Null Pointer Exception occurs in the server when starting the JMS bridge if the JMS adapter is deployed to the cluster.

Workaround (from CR125979): Deploy the messaging bridge adapter `jms-xa-adp.rar` to all individually Managed Servers, not to the cluster.

Recovery Scenario

Problem: In some cases, messages remain in the source queue of the JMS bridge in the sending-side cluster after restarting a Managed Server on the receiving side cluster.

Solution: Apply patch for CR128596 to the WebLogic server.

WebLogic Integration 8.1 Cluster – WebLogic Integration 8.1 SP2 Cluster

WebLogic Integration 8.1

Normal Scenario

Problem: A Null Pointer Exception occurs in the server when starting the JMS bridge if the JMS adapter is deployed to the cluster.

Workaround (from CR125979): Deploy the messaging bridge adapter `jms-xa-adp.rar` to all individually Managed Servers, not to the cluster.

Recovery Scenario

Problem: A Null Pointer Exception occurs on the JMS Store during Managed Server restart.

Solution: Apply the following patches from CR126883 to the WebLogic server:

- `CR126883_81sp1.jar`
- `tempPatch810sp1.jar`

Problem: In some cases, messages remain in the source queue of the JMS bridge in the sending-side cluster after restarting a Managed Server on the receiving side cluster.

Solution: Apply patch for CR128596 to the WebLogic server.

WebLogic Integration 8.1 SP2

Normal Scenario

Problem: A Null Pointer Exception occurs in the server when starting the JMS bridge if the JMS adapter is deployed to the cluster.

Workaround (from CR125979): Deploy the messaging bridge adapter `jms-xa-adp.rar` to all individually Managed Servers, not to the cluster.

Recovery Scenario

Problem: In some cases, messages remain in the source queue of the JMS bridge in the sending-side cluster after restarting a Managed Server on the receiving side cluster.

Solution: Apply patch for CR128596 to the WebLogic server.

WebLogic Integration 7.0 SP1 Cluster – WebLogic Integration 8.1 SP2 Cluster

WebLogic Integration 7.0 SP1

Normal Scenario

Problem: Unable to send messages.

Solution: Apply the combo patch from CR098263 to the WebLogic server. Also apply the following patches from CR127619 to the WebLogic server:

- CR127619_70sp1_rarfiles.jar
- CR127619_70sp1.jar

WebLogic Integration 8.1 SP2

Normal Scenario

Problem (normal scenario): A Null Pointer Exception occurs when starting the JMS bridge if the JMS adapter is deployed to the cluster.

Workaround (from CR125979): Deploy the messaging bridge adapter `jms-xa-adp.rar` to all Managed Servers, not to the cluster.

Security Incompatibility

After upgrading to WebLogic Integration 8.1 SP2, the `@common:security roles-allowed` annotation may cause security exceptions. This occurs because the roles in the application are not mapped to a *principal*, the identity assigned to a user, group, or system process as a result of authentication.

For example, if `@common:security roles-allowed="weblogic"` is run on a WebLogic Integration 8.1 SP2 server, the role `weblogic` is not found because the server expects the *role* name not the *user* name.

To fix this incompatibility, you can either create an application-level policy that maps the role `weblogic` to the user `weblogic` using the WebLogic Server Administration Console or define the mapping in `weblogic-application.xml`. You should then be able to login without any security exceptions as user `weblogic`.

For information about security policies, see Security in the WebLogic Server documentation at the following URL:

<http://e-docs.bea.com/wls/docs81/security.html>

For information about using the WebLogic Server Administration Console, see the Administration Console Online Help at the following URL:

<http://e-docs.bea.com/wls/docs81/ConsoleHelp/index.html>

Change in FileControlProperties Element of DynamicProperties XSD Schema

The `FileControlProperties` element of the XML Schema in the `DyanmicProperties.xsd` file has been changed from WebLogic Integration 8.1 to WebLogic Integration 8.1 Service Pack 2. When upgrading a WebLogic Integration application from WebLogic Integration 8.1 to WebLogic Integration 8.1 Service Pack 2, you must update your XML data and queries if you refer to the `FileControlProperties` element.

To view the updated version of the `DyanmicProperties.xsd` file:

1. Create a new WebLogic Integration 8.1 Service Pack 2 application (for example: Tutorial: Process Application).
2. In the **Application** pane, expand `Schemas`.
3. Expand `system` and then double-click `DynamicProperties.xsd`.

Here is a summary of the changes to the `FileControlProperties` element:

- The order of the `directory-name` and `file-mask` subelements must be switched.

- The following subelements have been removed:
 - post-read
 - error-directory
 - archive-directory

System Schema Files Require Upgrade

An error can occur when building a schema file from the initial release of WebLogic Integration 8.1 in WebLogic Integration 8.1 SP2. If the schema is not built correctly, you will not be able to use XQuery for referencing XSD files.

To resolve this issue, either refresh with the WebLogic Integration 8.1 SP2 system-related schema files or comment out the offending line. For example:

```
<element name="Description">
  <complexType>
    <simpleContent>
      <extension base="tns:non-empty-string">
        <!-- attribute ref="xml:lang" use="required"/ -->
      </extension>
    </simpleContent>
  </complexType>
</element>
```

XMLBeans Package Naming Convention Change for XSD Files

Some XSD schemas may not recompile correctly when upgrading from WebLogic Integration 8.1 to WebLogic Integration 8.1 SP2. If you have a compilation error when building an existing business process, you may need to change the package definition in the business process (JPD).

XQuery Namespace Enforcement

When transforming data using XQuery, the top-level element of the result of the XQuery transformation must match the return type XML Beans in WebLogic Integration 8.1 SP2. This was not enforced in WebLogic Integration 8.1 release.

To correct exceptions that result from namespace enforcement, specify the namespace or use a wildcard in the XQuery. For example, in a Message Broker subscription, you would specify a wildcard as follows:

```
set xquery="data($message/*:destination2) "
```

An example of an XQuery transformation is as follows:

```
* declare namespace ns0 = "http://www.bea.com/noNameSpace"
*
* <ns0:NetMessage>
* <ns0:NorderId>{data($_NetMessageDoc/orderId)}</ns0:NorderId>
```


3 Known Limitations

This section describes known limitations in the BEA WebLogic Integration 8.1 Service Pack 2 Release software. The known limitations are grouped by the following topics:

- [Administration And Configuration](#)
- [Application Integration](#)
- [Business Process](#)
- [Cluster Configurations](#)
- [Controls](#)
- [Event Generators](#)
- [Data Transformation](#)
- [Database](#)
- [Trading Partner Integration](#)
- [Worklist](#)

Administration And Configuration

Running Business Processes

You must build applications that use WebLogic Integration functionality in a WebLogic Integration or WebLogic Platform domain. Running business processes and data transformations in a WebLogic Workshop domain is not supported.


OutOfMemory Error possible if a JPD is invoked using the Test Console

You may experience an out of memory error if your JPDs are invoked using the WebLogic Workshop Test Console. To avoid this problem, invoke the JPDs using a JPD Proxy or Web Service Proxy. For more information on creating a JPD Proxy client, see the following URL:

<http://edocs.bea.com/workshop/docs81/doc/en/integration/howdoI/howUseJpdProxy.html>

Full Build Required to Update Process Information Displayed in the WebLogic Integration Administration Console

The process information displayed in the WebLogic Integration Administration Console reflects the state of the application from the last full application build (a full application build is executed by selecting the **Build→Build Application** option in Workshop or running the `wlbuild` command).

For example, if you delete a business process in Workshop and follow with a partial build (a partial build is executed by selecting the **Build→Build Project** option or clicking  to test a process), the deleted process will still be displayed in the console. If you execute a full application build and then view processes in the console, the deleted process will not be shown.

WebLogic Integration Resources Require Process Projects

Many WebLogic Integration resources (for example: message broker subscriptions and versioning information) require a WLI app listener to be defined in the `WEB-INF/web.xml` file for the current project. When a process project is created, this WLI app listener will be defined by default in the `WEB-INF/web.xml` file. If a process is inadvertently created in a non-process project (such as a default Web project), the WLI app listener will not be defined. During run time, these projects may appear to work in some instances but will fail when the required resource is accessed.

For a process project, the following XML elements are defined in the `WEB-INF/web.xml` file by default:

```
<listener>
<listener-class>
com.bea.wli.management.WliWebAppListener
</listener-class>
</listener>
```

Process Authorization Policies Are Reset Upon Redeploying From Workshop

With the WebLogic Integration Administration Console, you can set the roles authorized to call a process, the methods in that process, or the control callbacks in that process. When you redeploy your application from WebLogic Workshop in iterative development mode, these role settings are reset to the default policy of no constraints.

Workaround:

Option 1. Deploy and redeploy your applications in enterprise application archive (EAR) format as described in “Building and Deploying WebLogic Integration Applications” at the following URL:

<http://edocs.bea.com/workshop/docs81/doc/en/integration/deploy/deployIntro.html>

Option 2. If you choose to deploy and redeploy your application from WebLogic Workshop, do one of the following:

- Reenter your security settings after redeploying.
- Refrain from setting these policies until you are testing in production mode.
- Use `@common:security` annotations in the JPD **Source View** during the development phase of the project. As you near the production phase, remove

these annotations and then use the WebLogic Integration Administration Console to configure security. To learn more, see “@common:security Annotation” at the following URL

<http://edocs.bea.com/workshop/docs81/doc/en/workshop/javadoc-tag/common/security.html>

Result of trackdata() Call Not Recorded For Large Documents on Transaction Rollback

To avoid a possible problem in subsequent archiving, if both of the following conditions are met, the result of a `trackdata()` call will not be recorded in the WLI process events table.

- The transaction that calls `JpdContext.trackData(XmlObject value)` or `JpdContext.trackData(RawData value)` is rolled back
- The document passed in is large enough to be stored in the SQL document store.

Note: A document is persisted to the document store if it exceeds the size specified by the `weblogic.wli.DocumentMaxInlineSize` property in the `wli-config.properties` file. For example, the property is set as follows in the sample integration domain:

```
# Minimum size for documents stored in the SQL Document Store:  
  
weblogic.wli.DocumentMaxInlineSize=4096
```

Workaround: To minimize the risk of `trackData` calls being affected by a process rollback, call `trackData()` in its own transaction (in a perform node encapsulated within an explicit transaction boundary).

Short Purge Delay May Cause Phantom Rows and Loss of Tracking Data

If the purge delay is set to an interval that is shorter than the latency period for data in the instance information queue or tracking queue, phantom rows or lost data can result when the data is archived and purged.

For example, if an update to process instance status is sufficiently delayed in the instance information queue, it is possible for the archiver to run and purge all data related to the instance. When the delayed update is finally written to the database, the

WebLogic Integration Administration Console displays the instance as running (or some other state, depending on what type of status update was delayed), when in reality the process instance has already been completed and purged.

Workaround: Increase the purge delay to an appropriate length for your integration application. The default purge delay is one hour, which is generally more than adequate to prevent the problem. The longer the purge delay, the less chance there is for this problem to occur.

Instructions for setting the purge delay are provided in “Configuring the Archive and Purge Process” in [System Configuration](#) in *Managing WebLogic Integration Solutions* at the following URL:

<http://edocs.bea.com/wli/docs81/manage/system.html>

Setting Tracking Level to “None” No Longer Causes Tracking of Stateless Java Processes

Previous releases of WebLogic Integration tracked stateless java processes when the process tracking level was set to “none”. This no longer occurs.

Netscape 7.1 Not Supported For WebLogic Platform, Adobe SVG Viewer 3.0 Not Supported on Netscape 7.1

The interactive process graph of the WebLogic Integration Administration Console uses Adobe SVG Viewer Version 3.0x. Adobe SVG Viewer Version 3.0x is not supported by the Netscape 7.1 browser. To learn more, see *Browser Requirements for the Interactive Graph* available at the following URL:

<http://edocs.bea.com/wli/docs81/manage/processmonitoring.html>

Netscape 7.1 is also not a supported browser for WebLogic Platform 8.1. Detailed information about the operating systems and browsers WebLogic Platform supports is provided at the following URL:

http://edocs.bea.com/platform/docs81/support/supp_plat.html

Rapid Browser Refresh Can Generate an Exception

Refreshing a page of the WebLogic Integration Administration Console while data still is being transmitted may result in the display of the following exception:

```
java.net.SocketException: Connection reset by peer: socket write error
```

This error serves as a notification that a network error or problem on the server side prevented the page from completely loading. In the case of a rapid refresh, the browser closed the first socket while data was being transmitted across it.

Archiver Can Be Overwhelmed Under Load

The default process tracking level for a development domain is `FULL`, whereas the default process tracking level for a production domain (a domain started with the `notestconsole` flag) is `NONE`. Setting the process tracking level of a production domain to `FULL` may cause the archiver to be overwhelmed by messages and hang under load.

Workaround: Use the default tracking level of `NONE` in production and enable process tracking on selected JPDs. When enabling process tracking, use the following information as guidelines for sizing your archive:

- In general, there are two events recorded per instance for `MINIMUM` tracking, and two per node for `FULL` or `NONE` tracking.

Note: There are some exceptions to this general rule. For example, an additional event is recorded if a process instance is suspended, if an instance that is configured to freeze on failure encounters an error, or if a suspended or frozen instance is resumed or unfrozen.

- The archiver will comfortably archive and delete approximately 400k from the `WLI_PROCESS_EVENT` table. Past this point, the queries used to archive and delete will start to use increasingly larger amounts of CPU and memory.

For information about setting default production tracking levels, see “Configuring the Archive and Purge Process” in *System Configuration* in *Managing WebLogic Integration Solutions* at the following URL:

<http://edocs.bea.com/wli/docs81/manage/system.html>

For information about setting tracking levels for individual JPDs, see “Viewing and Changing Process Details” in [Process Instance Monitoring](#) in *Managing WebLogic Integration Solutions* at the following URL:

<http://edocs.bea.com/wli/docs81/manage/processmonitoring.html>

The Global Message Broker “Time of Last Reset” Field Should Be Ignored

With Service Pack 2, WebLogic Integration supports the ability to reset Message Broker message counts on a channel-by-channel basis. As a consequence, the **Time of last reset** field on the **View Message Broker Statistics** page (which was associated with the previous, global reset functionality) should be ignored.

Editing a Service Connection While Deploying an Adapter Instance Can Cause a Null Pointer Exception

If you click **Edit Service Connection** on the **Adapter Instance Details** page while an Adapter is deploying, the following exception may be generated:

```
java.lang.NullPointerException
```

Workaround: Do not click **Edit Service Connection** until you have confirmed that the adapter instance is fully deployed.

Application View and Adapter Statistics Are Reset When MBeans Are Recreated

The application integration statistics displayed in the WebLogic Integration Administration Console are derived from the `com.bea.wlai.management.runtime.AppViewSummaryMBean` and the `com.bea.wlai.management.runtime.AdapterSummaryMBean` MBeans. For performance reasons, these MBeans store the statistics in memory only; the statistics are not stored to disk or otherwise persisted. Therefore, any time these MBeans are destroyed, the statistics they contain are lost.

For additional information about how the statistics displayed are effected when an application view or adapter instance is redeployed, or when the managed server in a single server or clustered environment is restarted, see the “Monitoring Application

Views and Adapter Instances” section of “About Application Integration Monitoring and Configuration” in [Application Integration](#) in *Managing WebLogic Integration Solutions* at the following URL:

<http://edocs.bea.com/wli/docs81/manage/ai.html>

Enabling Connection Pool Auto-Resizing May Cause Application Out of Memory Errors

WebLogic Integration applications running over a period of time may run out of memory if the **Allow Shrinking** option for connection pools (or the **Allow Pool to Shrink** option for adapter instance service connections) is enabled.

Workaround:

- *For all connection pools used by WebLogic Integration*
Disable the **Allow Shrinking** option in the WebLogic Server Administration Console as follows:
 - a. Select **Services**→**JDBC**→**Connection Pools**→*poolName*.
 - b. Click the **Configuration** tab, then click **Connections**.
 - c. At the bottom of the page, to the left of **Advanced Options**, click **Show**.
 - d. Uncheck **Allow Shrinking** and click **Apply**.
- *For adapter instance service connections*
Disable the **Allow Pool to Shrink** option on the **Adapter Instance Service Connection Detail** page of the WebLogic Integration Administration Console, as described in “Viewing and Changing Connection Pool Size Parameters” in [Application Integration](#) in *Managing WebLogic Integration Solutions* at the following URL:

<http://edocs.bea.com/wli/docs81/manage/ai.html>

Event Generation Target Syntax in Console Help is Incomplete

The syntax documented in “Changing Event Generation Targets” in the “Application Integration” section of the WebLogic Integration Administration Console online help is incomplete. Please refer to the version of this section found in *Managing WebLogic Integration Solutions* at the following URL:

<http://edocs.bea.com/wli/docs81/manage/ai.html>

WebLogic Integration Domains with Administrative and Managed Servers Require a Cluster

A WebLogic Integration domain that includes an administrative server and one or more managed servers must include a cluster. The Configuration Wizard enables you to create a WebLogic Integration domain that includes an administrative server and one or more managed servers without a cluster, but this is an unsupported configuration.

Application Integration

Dependent Application Views Not Suspended When Adapter Instance is Suspended

When an adapter instance is suspended using the WebLogic Integration Administration Console, dependent application views are not automatically suspended. The behavior of application views when an adapter instance is suspended depends on whether they invoke synchronous or asynchronous services:

- When a synchronous service is invoked, a check is performed to see if the adapter is suspended. If so, an `ApplicationViewSuspendedException` is thrown, and the application view is suspended.
- When an asynchronous services is invoked, the request can not be completed and the asynchronous processor puts the request back on the request queue. The application view is not suspended.

Security Policy Settings Must Be Edited In Specific Order

Use the WebLogic Integration Administration Console to enable or disable container managed sign-on for an application view. In order for the container managed sign-on setting to take affect, you must redeploy the application using the WebLogic Server Administration Console. If security policy settings are not edited and deployed in the

correct order, application view security policy settings may be lost when the application is redeployed.

Workaround: Please follow the suggested sequence when editing security policy settings:

1. Edit the container manager sign-on settings for application view. Here you set your WebLogic server to EIS role maps.
2. Redeploy the application using the WebLogic Server Administration Console.
3. Edit the security policy for the application view using the WebLogic Integration Administration Console.

Republish Application Views to Incorporate New EJB Descriptors

The design-time EJB descriptors and the descriptors generated by the application view compiler (invoked when an application view is published) have changed for WebLogic Integration 8.1 SP2.

Workaround: You must republish your application views to ensure that the modified EJB descriptor is included in your application view EJBs.

Multiple Primary Event Generator Instances Result in Database Conflicts

The event generator target field is blank by default when the application is first deployed on the cluster. This implies that the event generator should not be activated on any node in the cluster. With the DBMS sample adapter in a clustered environment, multiple instances of a primary generator instance result in database conflicts and errors. Care should be taken to specify an appropriate generator instance specification for each server in the targets list, and ensure that only one server in the list contains the generator instance id '1'. For example, in a three node cluster, the following targets would properly distribute event generator instances on the nodes, with the instance on server1 being the primary instance.

Event Generator Targets: server1=[1/3],server2=[2/3],server3=[3/3]

However, the following targets would all mistakenly create duplicate primary generator instances:

Event Generator Targets: server1,server2,server3

Event Generator Targets: server1=[1/3],server2=[1/3 2/3],
server3=[3/3]

In the first case, no generator instances are specified, and each server creates an instance with an ID of 1, making it the primary instance. In the second case, two servers explicitly define a primary generator instance.

If you inadvertently specify event generator targets improperly, you may see database conflicts and errors during event generation at runtime. In this case, see the workaround below.

Workaround: To reset the event generator instances:

1. Set the event generator target to an invalid value (anything but an actual server name). This stops all the event generators.
2. Then set the event generator target to the desired value. This restarts only those generator instances that should be started.

Set SupportsLocalTransaction to True on XA Pool for Event Connection

The `SupportsLocalTransaction` option must be set to `true` on the XA pool used for an event connection. (Otherwise, you must use a non-XA pool for the event connection.) If the option is not set correctly for an XA pool, an exception similar to the following is thrown:

```
java.sql.SQLException: Logical handle no longer valid
```

If the DBMS sample adapter uses the same database instance on which the WebLogic Integration tables reside, it is recommended that all other XA connection pools also have the `SupportsLocalTransaction` option set to `true`. If the adapter uses a separate database instance, then only the XA pool for an event connection should have the `SupportsLocalTransaction` option set to `true`.

Workaround: To set this option, use the WebLogic Server Administration Console and navigate to Services → JDBC → Connection Pools.

Performance Issues When Posting Event Messages to Remote Application View Clients

Performance issues have been noted due to the time required to post event messages to JMS topics for remote application view clients.

Workaround: A new option has been added to enable or disable event delivery to remote application view clients. There are two ways to disable event delivery to remote application view clients:

1. Set `-DApplicationViewClientEnabled=false` on the server's Java command line.
2. Call the `AppViewDeploymentMBean.setApplicationViewClientEnabled()` method and pass `false` as the sole argument to the method.

The first method turns off event delivery to remote clients for all application views deployed in the server. The second method turns off event delivery to remote clients only for the application view for which the MBean method is called. With remote event delivery disabled, JMS resources are not consumed for the event topic.

Shutdown Problems Due to Pending XA Transactions After a DBMS Failure

In cases where a DBMS failure has occurred and the DBMS instance has been used in any XA transaction on a running managed server, pending XA transactions may be left on that server. If pending transactions exist on a managed server, graceful shutdown hangs waiting for those transactions to be completed. Due to recovery issues with Oracle thin drivers and Microsoft SQL Server drivers, sometimes these transactions cannot be successfully completed (committed or rolled back), making graceful shutdown impossible.

Asynchronous Service Error Counts Multiplied by the Number of Servers in the Cluster

In a clustered environment, the asynchronous service error counts displayed on the WebLogic Integration Administration Console are multiplied by the number of nodes in the cluster. For example, if 5 asynchronous service invocations fail on a three-node cluster, the asynchronous service error count is shown as 15.

Synchronous Service Counts Multiplied By the Number of Managed Servers After a Rollback

When synchronous services are invoked and a transaction rollback occurs before the services are performed, the WebLogic Integration Administration Console displays an incorrect synchronous service count. The count displayed is the number of synchronous services in process multiplied by the number of managed servers in the cluster.

Broken Pipe Exception Thrown for Asynchronous Service After the Adapter Instance is Resumed (Sybase)

When an adapter instance related to a Sybase database is suspended and resumed, invoking an asynchronous service throws an exception similar to the following:

```
java.sql.SQLException: [BEA][Sybase JDBC Driver]Broken pipe
```

This exception is harmless and can be ignored. The WebLogic Integration Administration Console displays the correct asynchronous service count and the associated event is triggered.

Suspended Async Service Count May Be Negative

The Suspended Async Service Count field may display negative numbers in cases where the number of retries exceeds the expected number. (You can view the Suspended Async Service Count on the Application View Instance Summary page of the WebLogic integration Administration Console.) This can occur after recovery from a situation where the WebLogic Server was abruptly stopped or the associated EIS is not available.

You can click the Reset Service Count button to reset the service statistics to zero.

Oracle 10g Thin Driver Not Supported for Use with the DBMS Sample Adapter

The Oracle 10g Thin Driver is not supported for use with the DBMS sample adapter on Oracle 817 platforms (both XA and nonXA). Note that this also applies to the application integration sample applications which use the DBMS sample adapter.

Event Generator Target Changes for a Suspended Application View Only Apply to New Events (DBMS Sample Adapter)

For the DBMS sample adapter, changes to the event generator target for a suspended application view do not apply to events already in the system. Only new events (those triggered after the change) are assigned to the new event generator target. Events already in the system are processed by the previous event generator target.

Event Generator Target Changes for a Suspended Application View On a Managed Server Deletes Suspended Events (DBMS Sample Adapter)

For the DBMS sample adapter, changes to the event generator target for a suspended application view on a managed server do not apply to events already in the system. Events already in the system queue prior to the event generator target change are not processed and cannot be migrated to a new event generator running on another managed server. This occurs because when event generator targets are changed, the event staging tables (including the `EVENT_GENERATOR_EVENT` table) are cleared and the information is not recoverable. This deletes the suspended events. The new event generator target applies to all new incoming events.

Business Process

How to View More Events in the Test Browser

If you want to see more than 30 events (the default) in the Test Browser, before running the business process, select the **Console** tab of the Test Browser and enter a larger number in the **Keep last *number* message** field, where *number* represents the number of messages to be displayed.

The freeze on failure Property is Ignored for Explicit Transactions

The `freeze on failure` property for explicit transactions is ignored. That is, if you set the `freeze on failure` property on an explicit transaction block, it is ignored at run time. When this property is set on the start nodes in a business process, it operates correctly and as documented.

This feature is deprecated in Service Pack 2. If a business process you created in an older version of WebLogic Integration contains a `freeze on failure` property on a transaction block, a compiler warning is issued to indicate that the `freeze on failure` value is ignored.

Timeout Attribute not Supported on Transaction Blocks

You cannot specify a timeout property on an explicit transaction block in the WebLogic Workshop graphical design environment. This feature is deprecated in Service Pack 2. If a business process you created in an older version of WebLogic Integration contains a timeout property on a transaction block, a compiler warning is issued to indicate that the timeout value is ignored.

Behavior of rename-old Attribute for the File Control

If you use a File control for which the **suffix-name** or **suffix-type** attributes are not specified, but for which the **create-mode** attribute specifies **rename-old**, the **create-mode** attribute specification is not honored. In other words, the older file is not renamed; instead it is overwritten.

To workaround this problem, if the **create-mode** attribute specifies **rename-old**, you must specify a value for the **suffix-name**.

Do Not Use Underscores In Control Callback Method Names

Do not use underscores in control callback method names. Doing so can cause business processes to be displayed incorrectly in the **Design View**, making it difficult to use the **Design View** to design your business process.

Filtering on RawData Data Types Is Not Supported For a Subscription to a Message Broker Channel or For a MB Subscription Control

Filtering on RawData is not supported at run time for a Message Broker Subscription control or for a Start node that specifies a subscription to a Message Broker channel.

Note that at design time, WebLogic Workshop allows you to define a filter for RawData types for a subscription Start node or a MB Subscription control using the **mb-subscription-control xquery** annotation in the **Property Editor**. However, the filter you define is not supported at run time.

Filtering on Message Metadata Is Not Supported if the Message Body is RawData Data Type

You cannot use the WebLogic Workshop graphical design environment to define a filter on metadata when the Message Broker channel to which the process subscribes (statically or dynamically) is defined with the following properties:

`messageType=rawData` and `qualifiedMetadataType`. An example of such a channel definition is described in the following code:

```
<channel name ="SampleRawDataChannel" messageType="rawData"
qualifiedMetadataType="eg:JmsEventGenerator"/>
```

Note that `messageType` is `rawData` and that a `qualifiedRawDataMessageType` is *not* defined for this channel.

When you subscribe to such a channel statically (through a Subscription Start node), the **Specify Filter** tab on the Start node builder does not allow you to specify a filter on the metadata. Similarly, when you subscribe to such a channel dynamically (through a MB Subscription control), the **mb-subscription-control** annotation in the **Property Editor** does not allow you to specify a metadata filter.

Workaround: You can workaround this problem by editing the business process' source code directly to specify the `xquery` statement and `filter-value-match` value that define a filter. The following steps describe how to do so:

1. Open the business process in WebLogic Workshop.
2. If the **Source View** is not already open, click the **Source View** tab to open the JPD source code.
3. Locate the subscription method for either a static subscription (a Subscription Start method), or a dynamic subscription (on a MB Subscription control), and modify it to specify the metadata filter:
 - **In the case of a static subscription on a Start node**—locate the `@jpd:mb-static-subscription` annotation associated with the subscription method in the JPD file. Then add an `xquery` statement and a `filter-value-match` value that define a filter to the annotation. For example, the following code shows a `@jpd:mb-static-subscription` annotation to which an `xquery` statement and a `filter-value-match` value were added in the source code:

```
/**
 * @jpd:mb-static-subscription
```

```

    xquery="data($metadata/ns1:FileName) "
    filter-value-match="thisFileName"
    message-metadata="{x1}" message-body="{x0}"
    channel-name="/SamplePrefix/Samples/SampleRawDataChannel"
*/

```

```

public void subscription(com.bea.xml.XmlObject x0,
    com.bea.wli.eventGenerator.FileEventGeneratorDocument x1)

```

- **In the case of a dynamic subscription on a MB Subscription control node**—locate the control declaration for the Message Broker Subscription control in the JPD file. For example:

```

/**
 * @common:control
 */

private requestquote.MySubControl mySubControl;

```

Depending whether you defined properties in the **Property Editor** before editing the source code in this step, the `@jc:mb-subscription-control` annotation may or may not already be associated with this subscription method. If it is not, you must first create the annotation:

```

/**
 * @common:control
 * @jc:mb-subscription-control
 */

private requestquote.MySubControl mySubControl;

```

If it already exists in the source code, you simply add an `xquery` statement and a `filter-value-match` value to the annotation. For example, the following code shows the control declaration to which a `@jc:mb-subscription-control` annotation, an `xquery` statement, and a `filter-value-match` value were added in the source code:

```

/**
 * @common:control
 * @jc:mb-subscription-control
    xquery="data($metadata/ns1:FileName) "
    filter-value-match="thisFileName"
 */

private requestquote.MySubControl mySubControl;

```

WebLogic Builder Strips CDATA Block Notation From Deployment Descriptors (Using the Suppressible Attribute for a Static Subscription Sample Documentation)

The [Using the Suppressible Attribute for a Static Subscription](#) sample documentation in the WebLogic Integration documentation instructs you to use the WebLogic Builder tool to modify the deployment descriptor for the JMS event generator message-driven bean to set the JMS event generator pool size to 1.

The deployment descriptor's (`ejb-jar.xml`) `message-selector` element includes XML characters, which are wrapped in a CDATA block, as shown in the following line:

```
<message-selector><![CDATA[GROUPID>=100 and  
GROUPID<200]]></message-selector>
```

A bug in the WebLogic Builder tool causes the CDATA block to be stripped when you edit the deployment descriptor:

```
<message-selector>GROUPID>=200 and GROUPID<300</message-selector>
```

When the `message-selector` element is defined like this, the JMS event generator cannot be deployed.

Workaround: To workaround this problem, use a tool other than the WebLogic Builder to modify the `max beans in pool` (that is, to set the JMS event generator pool size to 1).

Note: The [Using the Suppressible Attribute for a Static Subscription](#) sample documentation is available at the following URL:
<http://bernal/stage/workshop/docs81/doc/en/integration/samples/sampleSuppressible.html>

Use of the @jpd:unexpected-message Annotation

Business processes often include nodes such as **Control Receive** or **Client Request**, at which the process waits for delivery of an expected message before continuing. By default, messages that arrive before they are expected—that is, before the process encounters the **Control Receive** or **Client Request** node in question—are automatically buffered and are delivered later when the process is ready to receive them. In some cases the process designer may wish to discard any such early, *unexpected* messages; this enables the process to ignore messages that arrived earlier yet are no longer relevant to the process. The `jpd:unexpected-message` annotation

gives process designers the ability to control this behavior on a node-by-node basis. The annotation is available for **Control Receive** nodes and **Client Request** nodes in positions other than the Start node. The annotation can be set by switching to the Source View, clicking on the corresponding node's method header, consulting the `unexpected-message` header in the **Property Editor**, and setting the `action` property from `save` (the default) to `discard`. The annotation is placed into the JPD source code, as shown in the following code segment:

```
/**
 * @jpd:unexpected-message action="discard"
 */
```

When Archiving Business Processes Using an XA Driver, You Must Set `SupportsLocalTransaction` Equal to `True`

If you are archiving business processes and using a XA driver for the business process archiver data pool (`bpmArchPool`), you must add the `SupportsLocalTransaction="true"` setting to the XA connection pool definition in your `config.xml` file. This enables the data source to participate in a local transaction.

Control Send Node in a Business Process Invoking a WebLogic Workshop Web Service, Which in Turn Invokes a Method on a Stateful or Stateless EJB May Fail

If a **Control Send** node in WebLogic Integration business process invokes a WebLogic Workshop Web service and the Web service then invokes a method on a stateful or stateless EJB, an exception may be thrown. The exception listed in the console, is similar to the following exception:

```
<Jun 26, 2003 3:49:56 PM EDT> <Error> <WLW> <000000> <Unable to remove
bean instance: weblogic.ejb20.locks.LockTimedOutException: [EJB:010107]The
lock request from EJB:SimpleSS with primary key:145008051647152128 timed-out
after waiting 0 ms. The transaction or thread requesting the lock was:
Thread[ExecuteThread: '11' for queue: 'weblogic.kernel.Default',5,Thread Group for
Queue: 'weblogic.kernel.Default']>.
```

“Could not update process instance info for process type...” Warning Appears in Log

Under load, the following message may appear in the log:

```
<BEA-480200> <Could not update process instance info for process type...>
```

This is an advisory message. The process monitoring bean will rollback the transaction and retry after a time interval. It does not indicate loss of data.

When Creating a New Process Application the “Libraries for the project xxxWeb are out of date” Dialog May Appear

When creating a new Process Application or Tutorial: Process Application, you may see a dialog box asking the following question:

```
Some of the libraries for the project xxxWeb are out of date. Would you like to upgrade now?
```

Click **Yes**, if you plan to use NetUI or WebLogic Portal functionality in your Process Application.

When Starting WebLogic Server, the WebLogic Integration Domain Generates Process Tracking Messages

WebLogic Server logs the following messages regarding a WebLogic Integration domain on startup:

```
<BEA-014006> <The message driven bean (MDB) named "ProcessTrackingEventListener" has a dispatch policy "wli.internal.ProcessTracking" that refers to an unknown execute queue thread pool. The default execute thread pool will be used instead.>
```

```
<BEA-014006> <The message driven bean (MDB) named "InstanceInfoEventListener" has a dispatch policy "wli.internal.ProcessTracking" that refers to an unknown execute queue thread pool. The default execute thread pool will be used instead.>
```



```
<BEA-014006> <The message driven bean (MDB) named  
"ProcessTrackingEventListener" has a dispatch policy  
"wli.internal.ProcessTracking" that refers to an unknown execute  
queue thread pool. The default execute thread pool will be used  
instead.>
```

You can ignore these messages.

Note: You can create the execute queues mentioned in these log messages using the WebLogic Server Administration console. If you do so, you should choose an appropriate thread size to match the application and tracking level. For more information about creating execute queues, see [Execute Queue --> Configuration](#) in the *WebLogic Administration Console Online Help*.

High Numbers of Active Conversations with Conversation-Lifetime Timeout Enabled Can Cause Significant Memory Consumption

Using a conversation-lifetime timeout may result in excessive memory consumption. The conversation-lifetime timeout is enabled on a JPD by default.

Workaround: To workaround this problem, do one of the following:

- Add memory to your system.
- Reduce conversation-lifetime max-age.
- Disable the timeout by setting conversation-lifetime max-age to 0s.

For information about configuring conversation-lifetime max-age, see [Managing Conversation Lifetime](#) in the *BEA WebLogic Workshop Help*.

Continue Transaction Attribute on Parallel Nodes

As described in the **Implicit Transaction Boundary Rules** section of [Transaction Boundaries](#), both the beginning and the end of a parallel group node mark boundaries of new transactions, by default.

An attribute is available for the parallel node that allows you to override this default. In other words, you can specify that the active transaction is continued when entering and exiting a parallel block. If you want to use this functionality for a parallel node in your business process, you must add the attribute to your business process (JPD) in the source code (the functionality is not provided through the Workshop Design View).

To add the attribute, open the business process in the Workshop Source View. Then edit the parallel element for which you want to define the behavior to include **continueTransaction="true"**, as shown in the following line:

```
<parallel continueTransaction="true">
```

In this way you specify that at run time, the parallel group maintains or continues the active transaction, when entering and exiting this parallel block.

Note: Adding **continueTransaction="false"** to the element has the same effect as not adding the attribute to the `<parallel>` element.

The **Implicit Transaction Boundary Rules** are available at the following URL:

<http://edocs.bea.com/workshop/docs81/doc/en/integration/wfguide/wfguideTransaction.html>

Cluster Configurations

For Concurrent Access to JPDs, Concurrency Strategy Must Be Set to EXCLUSIVE for Oracle Databases.

Generally when you configure a clustered environment, the concurrency strategy must be set to Database (see “Step 1. Comply with Configuration Prerequisites” in [Configuring a Clustered Environment](http://e-docs.bea.com/wli/docs81/deploy/config.html) in *Deploying BEA WebLogic Integration*, located at <http://e-docs.bea.com/wli/docs81/deploy/config.html>). However, in the case of Oracle databases, to minimize lock conflicts with Oracle, entity bean `Exclusive` concurrency strategy should be used. `Exclusive` is the default concurrency strategy.

Deploying an EAR in Cluster Configurations Causes Certain Warnings That Can Be Ignored

Specifying a cluster name as the target when you deploy an EAR file causes BEA-149055 warnings to appear in the WebLogic Server console window for the

WebLogic Server that hosts the WebLogic Server Administration console (WebLogic Admin Server). These warnings include the following text:

Having multiple individual servers of a cluster as targets instead of having the entire cluster as the target can result in non-optimal load balancing and scalability.

You can ignore these messages.

Transaction Retry Count (Number of Retries * Retry Delay) of a JPD Must Exceed the Time It Takes to Recover a Managed Server

Certain asynchronous callbacks (timer, process control) have no retry parameters. In order to avoid problems during recovery, we recommend that you change the retries and retry delays in the project JMS queue.

Warning: Configuring retries and retry delay parameters in the project JMS queue will override the retries and retry delay parameters in the JPD.

For information about configuring JMS queue retries and retry delays, see “Managing Rolled Back, Recovered, Redelivered, or Expired Messages” in [Programming WebLogic JMS](#) in *Programming WebLogic JMS*.

Considerations for Recovery after Managed Server Failure in Oracle Environments

When a managed server fails and leaves Oracle with an in-doubt transaction, the following situations may occur:

- Other record inserts may hit errors on the table with the in-doubt transaction. This may prevent the start of new java processes.

Workaround: Restart or migrate the failed JTA service. Make sure you have sufficient retries on running processes to cover the time that it takes to migrate.

- It may take Oracle several minutes to return the transaction to a recovery service. Initiating JTA recovery before Oracle is ready may cause recovery to fail.

Workaround: Wait several minutes before starting recovery. Restart recovery, if it appears to fail.

For information about restarting and migrating JTA services, see [Server --> Control --> Start-Stop](#) and [Server --> Control --> JTA Migrate](#) in the *WebLogic Server Console Online Help*.

Controls

Do Not Use Underscores In Control Callback Method Names

Do not use underscores in control callback method names. Using underscores can cause business process not to be displayed correctly in the **Design View**, making it difficult to design your business process.

Empty Directory Name for Append Operation Results in Exception (File Control)

When using the File control for an append operation, specifying an empty directory (`directory-name="/"`) results in the following exception:

```
java.io.FileNotFoundException.
```

Workaround: Specify a directory name in the **directory-name** field.

File Override Behavior of the File Control

When using the file control, if no suffix is specified, the `create-mode="rename-old"` attribute is not honored. Instead the file is overwritten.

Overwrite Option Does Not Work When Suffix Type Is Set To Timestamp (File Control)

If you set the suffix attribute `timestamp` in the File control, the `create-mode=overwrite` attribute is not honored. Instead, the file is renamed.

Service Broker Control Cannot Be Created For a Business Process Not in the Current Application

When creating a Service Broker control referencing a business process (JPD), the business process must be in the current WebLogic Workshop application. Attempts to create a Service Broker control referencing a JPD file in another application result in a `Cannot parse file` error.

Parent Process Not Notified of Failed Call to Subprocess (Process Control)

When using a Process control to communicate between business processes, a buffered `clientRequest` to a subprocess may fail authorization checks. If an authorization failure occurs, the message is discarded, but the caller (sender) does not receive notification of the failure.

Passing XML Bean from JWS to JPD Using Process Control Generates Exception

Passing an XML Bean in a call from a Web service (JWS) to a business process (JPD) using a Process control across applications generates an error. Currently, the Process control assumes that the argument is `ProcessXML`. Since the caller is a Web service, this is not the case and the type is not stripped. Attempts to pass an XML Bean in this case generate an exception similar to the following:

```
Throwable: com.bea.control.ProcessControlException:  
[WLI-Core:530214]ProcessControl invocation failed[EJB Exception:  
: java.lang.IllegalArgumentException: argument type mismatch
```

Event Generators

File Event Generator Archives Files on the Remote Server

If the **File Type** for a File event generator channel is **FTP**, and **Post Read Action** is set to **Archive**, the event generator archives files in the **Archive Directory** specified on the remote FTP server. This will be corrected in a future release. That is, in the future, the files will be archived in the specified **Archive Directory** on the local machine.

Retrieving or Filtering on Timer Event Generator Metadata is Not Supported

Events published by the Timer event generator contain custom SOAP headers rather than metadata headers, consequently, filtering or retrieving events based on metadata is not supported at this time.

Suspended Status of an Event Generator is not Preserved when the Server is Restarted

If an event generators is in the suspended state when the server is restarted, the event generator is restarted. The suspended status of the event generator is not preserved when the server is restarted.

Event Generators Fail When AnonymousAdminLookupEnabled is Set to False

Event generators fail when the `AnonymousAdminLookupEnabled` property is set to false. An exception similar to the following is displayed:

```
<Oct 15, 2003 11:50:04 AM PDT> <Error> <WLW> <000000> <Cannot get  
MBean Home: javax.naming.NoPermissionException: User <anonymous>  
does not have permission on weblogic.management.home to perform  
lookup operation.>
```

This property is set on the Domain Wide Security Settings, Configuration → General tab of the WebLogic Server Administration Console.

You should be aware of the security implications of setting `AnonymousAdminLookupEnabled` to `true`. For more information, see Security Advisory BEA03-43.00 at the following location:

http://dev2dev.bea.com/resourcelibrary/advisoriesnotifications/BEA03_43.00.jsp

Data Transformation

Mapping Between `xs:date` to `java.util.Date` Not Supported

Mappings between the XML Schema type `xs:date` and the `java.util.Date` Java class are not supported. The XML Schema type `xs:date` contains only a date component and does not contain a time component while the `java.util.Date` Java class contains both a time and date component. Therefore, these two data types are not equivalent and mappings between these two types will fail during runtime.

Timezone Not Return With `xf:current-*` XQuery Functions

The following XQuery functions are not returning a timezone with the returned XML Schema data type:

- The `xf:current-date()` function is not returning a timezone with the `xs:date` XML Schema data type. The W3C XQuery Function and Operator specification specifies that this function should return the timezone with the `xs:date` XML Schema data type. To learn more, see the W3C [current-dateTime](#) function description.
- The `xf:current-time()` function is not returning a timezone with the `xs:time` XML Schema data type. The W3C XQuery Function and Operator specification specifies that this function should return the timezone with the `xs:time` XML Schema data type. To learn more, see the W3C [current-time](#) function description.
- The `xf:current-dateTime()` function is not returning a timezone with the `xs:dateTime` XML Schema data type. The W3C XQuery Function and Operator specification specifies that this function should return the timezone with

the `xs:dateTime` XML Schema data type. To learn more, see the W3C [current-dateTime](#) function description.

Cannot Test Queries in the Test View with Abstract Classes or Interfaces As Source

Abstract Java classes and interfaces are supported as source input types to queries but these queries will fail and an exception will be thrown when run in the **Test View** of the mapper. This exception is only thrown when these queries are run in the **Test View** of the mapper, during run time (outside the mapper), these queries will run successfully.

IOExceptions Thrown in Test View

In the **Test View** of the mapper, the `java.io.IOException` maybe be thrown when the size of the input data for the query is a multiple of 8K. This exception is only thrown when the query is run in the **Test View** of the mapper, during run time (outside the mapper) the query will run successfully with the same input data.

Test XML Generation for XML Schemas With Choice Groups Not Supported

The **Test View** of the mapper does not generate the input XML test data correctly for XML Schemas that contain choice groups. (All the choice groups are generated.)

To learn more about choice groups in XML Schemas see the following URL:

<http://www.w3.org/TR/xmlschema-0/#groups>

Workaround: In the **Test View** of the Mapper, edit the XML Data that is generated and delete the any extra choice groups, so only a single choice group remains before running the query.

Using XQuery Keywords in XPath Expressions

In XPath expressions, if the name of an element contains an XQuery keyword and the element does not have a namespace associated with it, use the child syntax to refer the element in the XPath expression. For example, instead of referring to an element using the following syntax: `$a/for`, use the unabbreviated syntax: `$a/child::for`.

Here are the reserved XQuery keywords:

- for
- let
- some
- every
- unordered
- validate

To learn more about the reserved XQuery keywords, see the following URL:

<http://www.w3.org/TR/2002/WD-xquery-20020816/#N4021F0>

To learn more about the unabbreviated syntax, see the following URLs:

<http://www.w3.org/TR/xpath20/#unabbrev>

<http://www.w3.org/TR/xpath20/#abbrev>

How to Regenerate Test Data Once the Data Has Been Modified or Deleted

Test data is generated for the input types in the **Test View** of an XQ file. You can edit the current XML data. If you want to regenerate the test data again, follow the steps described in the *Updating the Graphical Representation Displayed in the Source View of a XQ File* section in *Selecting Input and Output Types* available at the following URL:

<http://edocs.bea.com/workshop/docs81/doc/en/integration/dtguide/dtguidemapperimportschemas.html>

For example, you might want to regenerate the XML test data, if you edited the original XML data resulting in XML data not valid to the associated schema and now want to regenerate the input XML data, again.

Deviations from the W3C XQuery August 2002 Draft Specifications

The WebLogic XQuery engine conforms to the August 16, 2002 draft of the W3C XQuery Specification which is available at the following URL:

<http://www.w3.org/TR/2002/WD-xquery-20020816/>

The following are the known deviations from that specification:

- Escaped whitespace characters are not supported.
- The XQuery `xf:NOTATION` constructor is not supported.
- The XQuery `normalize-unicode` function is not supported.

Database

To Change the Default Pointbase Port

When you use Configuration Wizard in Custom mode and specify Pointbase ports other than the default (9093), the generated startup scripts do not reflect the correct port value.

Workaround: You can edit the `startWebLogic` script (`startWebLogic.cmd` for Windows) and add the `-port=XXXX` option in the line that starts the `startPointBase` script (`startPointBase.cmd` for Windows) after the `startPointBase` command. (Where `XXXX` represents the correct port value.) This workaround only applies if all database connection pools use the same port. If they use different ports, we recommend commenting out the `startPointbase` command from the scripts and starting the database manually.

For Oracle, LOB Data Should Be Stored in Separate Tablespaces

When you create the tables for a Workshop web service deployed to a production environment, Oracle users should store `BLOB` and `CLOB` data in one or more tablespaces that do not contain other types of data.

The following WebLogic Integration system tables have `BLOB` or `CLOB` columns:

- `WLI_CALENDAR`
- `WLI_PROCESS_DOCUMENT` (an extension of the `JPD_*` state tables)
- `WLI_PROCESS_EVENT`
- `WLI_PROCESS_TRACKING`
- `WLI_WORKLIST_DATA`

- WLI_MT_CONTENT

The following archive tables include BLOB or CLOB columns:

- WLI_DOCUMENT_DATA
- WLI_TASK_ARCHIVING
- WLI_TASK_DATA_ARCHIVING

The BLOB and CLOB data for all of these tables should be segregated from other data.

Storing BLOB or CLOB data in the USERS tablespace can exhaust the tablespace's storage capacity.

Workaround: Create a new tablespace to store the BLOB data. You can use the following table creation script as a template.

```
CREATE TABLE <*tableName*> (
  CG_ID varchar(768) not null,
  LAST_ACCESS_TIME number(19,0),
  CG_DATA BLOB,
  PRIMARY KEY (CG_ID)
)
LOB("CG_DATA") STORE AS ( TABLESPACE <*blobTablespace*> )
```

For Pointbase, If a Process Variable Exceeds 4 Mb, All Conversations Are Terminated In the Process

Using the Pointbase database, during run time, if the size of the data stored in a process variable exceeds 4 MBytes, all conversations will be terminated in the current process.

Workaround: Manually create all the conversation state tables in the Pointbase database with a column size larger than the size of the data stored in process variables. Alternatively, if the conversation state tables have already been created, increase the default column size of all the conversation state tables in the Pointbase database to a size larger than the size of the data stored in process variables. During development, these tables are typically autocreated by WebLogic Workshop with names based on the app/package/filename of the source (for example: JWS_WLIPROD_BPM_ORDERPROCESSOR).

For Oracle Databases, “ORA-27101: shared memory realm doesn’t exist” Exception Occurs When There are Insufficient Connection Processes Available

When there are too few connection processes available to handle concurrent messages being sent to an Oracle database, ORA-27101 exceptions occur.

Workaround: Increase the WebLogic execution process `ThreadCount` and increase the connection processes in your Oracle database to a number appropriate for your application load. For information about configuring WebLogic execution thread pools, see [Creating Execute Queues](#) in *WebLogic Server Performance and Tuning*. Contact your Oracle DBA for assistance in tuning your database connection processes.

For Sybase Databases, Transaction Logs May Require Manual Refresh

The transaction log may require manual intervention to prevent it filling up under load.

Workaround: Create a large log segment and a threshold process that sends notification to the database administrator when the log segment fills to a certain percentage of its size. The database administrator should manually dump the log.

For Sybase Databases, Using TEXT or IMAGE Data Types in Prepared Statements Causes Certain JDBC Errors That Can Be Ignored

If you have enabled JDBC logging in the WebLogic Server Administration console and you are using `TEXT` or `IMAGE` data types in prepared statements for a Sybase database, you may see JDBC errors like the following in your log:

```
SQLException: SQLState(HY000) vendor code(2782)
java.sql.SQLException: [BEA][Sybase JDBC Driver][Sybase]An untyped
variable in the PREPARE statement 'S1004' is being resolved to a
TEXT or IMAGE type. This is illegal in a dynamic PREPARE statement.
```

You can ignore these errors.

Oracle Deadlocks Intermittently During Trading Partner Transactions Using ebXML Business Protocol

Oracle databases deadlock intermittently when trading partners exchange messages using the ebXML business protocol. When this occurs, a message similar to the following appears in the log:

```
Exception occurred during commit of transaction
xid=BEA1-002CE5A3E22526C12C0A(28578704),Status=Rolled back.
[Reason=javax.ejb.EJBException: nested exception is:
java.io.IOException: ORA-00060: deadlock detected while waiting for
resource
```

This message is informational. The transaction will be retried.

On Sybase Databases, Messages Larger Than 150 KB May Fail

On Sybase databases only, messages exceeding 150 kb may fail with the following error:

```
<BEA-463014> <IOException during receiving message
java.io.IOException: Failed to flush document to store..>
```

On Microsoft SQL Databases, Requests May Rollback With an SQL Deadlock Error When Sending Multiple Asynchronous Requests to the Same Stateful Process

On Microsoft SQL databases only, requests may rollback when sending multiple asynchronous requests to a single stateful process if you have too few retries configured for the process. When this occurs, an SQL deadlock message similar to the following appears in the log:

```
<Exception in ejbRemote java.sql.SQLException: [BEA][SQLServer JDBC
Driver][SQLServer]Transaction (Process ID 67) was deadlocked on
lock resources with another process and has been chosen as the
deadlock victim. Rerun the transaction.>
```

Workaround: Configure a sufficient retry count to retry the transaction.

Do Not Associate a Single XA Connection Pool with Different Datasources

Do not associate the same XA connection pool with two different datasources. This problem has been observed in some business processes using the Application View and Database controls. This causes problems with the way WebLogic Server enlists resources in a global transaction which includes connection requests through both datasources, as illustrated in the following scenario:

1. WebLogic Server enlists the common connection pool as a transaction resource on behalf of the first connection request through the datasource.

2. WebLogic Server fails to refrain from making a second enlist request when the first connection is requested through datasource
3. The second request to enlist this same resource results in an XAER_RMERR error.

The associated Oracle error is:

```
ORA-02044 transaction manager login denied: transaction in
progress. Cause: A remote transaction manager tried to log in while
a distributed transaction is in progress. A protocol error occurred
in the remote transaction manager.
```

For more information, see the Note in “When to Enable Global Transactions in a Data Source” at the following URL

http://edocs.bea.com/wls/docs81/ConsoleHelp/jdbc_datasources.html

High JDBC Connection Pool Use When Using the Document Store

The document store may fail to return JDBC connections under various conditions. Symptoms will include a high JDBC connection use count. These connections will be returned to the pool when the anchoring document store objects are garbage collected.

Workaround: Do one of the following:

- Define a high number of JDBC connections for `cgPool`, and carefully monitor the pool size.
- Disable use of the document store. You can configure use of the document store using the `weblogic.wli.DocumentMaxInlineSize` property in the `wli-config.properties` file. For more information, see [wli-config.properties Configuration File](#) in *Deploying WebLogic Integration Solutions* at the following URL:

http://edocs.bea.com/wli/docs81/deploy/wliconfig_appx.html

Trading Partner Integration

Do Not Use Double-Byte Characters (DBC) for ebXML Service Name when Running on Unix

If you are running WebLogic Integration on a Unix Operating System, using DBCs for ebXML service names may cause an exception in the WebLogic Server.

Workaround: Set the **LANG** environment variable to an appropriate value before starting the WebLogic Server. For example:

```
% export LANG=ja_JP.utf8
% $DOMAIN/startWebLogic.sh
```

If **LANG** is set to:

- **ja_JP.utf8**—the WebLogic Server works in Japanese mode. But there is a possibility that messages in the WebLogic Server console are garbled.
- **c**— the WebLogic Server works in English mode. Messages are displayed in English on the console.

The ebXML Protocol Use the Remote Trading Partner's Values for Retry Number, Retry Interval, and Persist Duration

When you are using the ebXML protocol for Trading Partner messaging, the values used for **Retry Number**, **Retry Interval**, and **Persist Duration** are always the values of the *remote* trading partner, not the *local* Trading Partner.

Using Controls to send Messages from Participant Business Processes is Not Recommended

In WebLogic Integration, you use Trading Partner Integration controls to send messages from the *initiator* business process to the *participant* business process. However, in the *participant* business process it is recommended that you use Client Response nodes to handle outgoing business messages to the *initiator*.

If you use controls in a *participant* business process, you may lose the message response signals, such as acknowledgments and error messages. If you need to use a control to send messages instead of using the recommended design pattern, place the control in a subprocess and invoke the subprocess from the *participant* process.

Trading Partner Integration API Changes

The following APIs have changed:

- `retrieveAllTradingPartner` is now `retrieveAllTradingPartners`
- `retrieveAllAuthentication` is now `retrieveAllAuthentications`
- `retrieveRosettaNetServiceBinding` is now `retrieveRosettaNetServiceDefaults`

The Default Trading Partners have New Trading Partner IDs

The two default trading partners that are created when you create a new WebLogic Integration domain have new default trading partner IDs.

Trading Partner	Old ID	New ID
Test_TradingPartner_1	TP1-id	000000001
Test_TradingPartner_2	TP2-id	000000002

If you use a new WebLogic Integration domain with any old application data, be sure to update any relevant files.

DOCTYPE is not Preserved in XQuery Transformations

XQuery transformation do not preserve the `DOCTYPE` element.

If you need the `DOCTYPE` element in further processing, add it back into your message by using the `obj.documentProperties().setDoctypeSystemId` in a Perform node following the transformation. An example of this is shown in the “Walkthrough of the Failure Notifier Business Process” section of the “Step 2: Open the PIP0A1: Notification of Failure Example” example under the “Tutorial Steps” heading of the [Tutorial: Building RosettaNet Solutions](#) available at:

<http://edocs.bea.com/wli/docs81/tptutorial/rosettanet.html>.

Update Older Bulkloader XML Files when Using Signature Configurations

This version of WebLogic Integration supports MD5, in addition to SHA1, as a digest algorithm option for RosettaNet. If you want to use signature configuration with older versions of bulkloader XML files, you need to add the following attribute to these files:

- `signature-digest-algorithm="MD5"` valid values are MD5, SHA-1 or NONE.

The `signature-digest-algorithm` attribute is optional. Its representation is a character string in the DBMS. If you do not specify a value when you import the older version of the XML file, the value is set to NONE.

Importing DER Encoded Encrypted Private Key in the WebLogic Administration Console is Not Supported

The DER encoded encrypted private keys are not supported to be directly imported in the WebLogic Integration Administration console. Instead you should use one of the following options:

- Convert the file to PEM format before importing it in the WebLogic Administration Console. You can use a tool such as OpenSSL to convert the file. In OpenSSL, you convert a DER file to PEM format using the following command line:

```
openssl x509 -inform DER <filename.der> -outform PEM -out <filename.pem>
```
- Import the DER file directly into the keystore and then configure the alias in the WebLogic Integration Administration Console to point to the correct certificate.

RosettaNet Participant Business Processes Takes JPD Filename as Default PIP Name

When you create a RosettaNet participant business process, the file name you entered for the JPD file is used as the default value for the `pip-name` attribute in the `@jpd:rosettanet` annotation. Before you run your RosettaNet participant business process in production mode, you must change the `pip-name` attribute to a valid PIP code. For more information, see [Customizing a RosettaNet Participant Business](#)

Process at:

<http://edocs.bea.com/workshop/docs81/doc/en/integration/wfguide/wfguideRosettaNetCustomizing.html>.

WebLogic Administration Console Generated Client Certificates May Not Work for Two Way SSL Testing

The “self-signed” client certificates that you can generate for testing purposes through the WebLogic Integration Console may not work for two way SSL configurations when client certificates are enforced on the server-side.

Workaround: When you are testing two way SSL configurations, generate your test certificates by using other tools, such as OpenSSL.

When Using MD5 Digest Algorithm Option, Message Header Does Not Show Correct Value

When you select to use MD5 as the Hash Function option, your message is encrypted according to the correct algorithm, but the message header is set to SHA1.

Note: The MD5 option is not recommended for production environments since it offers less security than the SHA1 setting.

RosettaNet Secure Transport field in Delivery Header is not Correctly Set

The secure transport field in the RosettaNet delivery header is always set to no. However, this does not stop messages to be delivered through HTTPS when the protocol is requested by the service profile.

When Using Multiple JPD Files with Same Names in Same Java Package, Use Actual URIs as Endpoints to Avoid Ambiguity

When you have multiple JPD files with the same name within the same Java package, i.e. in the same project, you should use the actual URI to identify the absolute endpoint of the participant process.

To use this feature, you must first add the `B2B-TransportServletFilter` to your `web.xml` file by adding the following lines of code:

```

<!-- WLI-B2Bi filter-begin. DO NOT EDIT -->
<filter>
<filter-name>TransportServletFilter</filter-name>
<filter-class>com.bea.b2b.transport.http.TransportServletFilter</
filter-class>
</filter>

<filter-mapping>
<filter-name>TransportServletFilter</filter-name>
<url-pattern>/*</url-pattern>
</filter-mapping>
<!-- WLI-B2Bi filter-end. -->

```

After you have edited your `web.xml` file, update your trading partners endpoint URL accordingly.

Using RosettaNetContext XMLBean May Require Custom Coding

Examples of how to use the RosettaNetContext XMLBean is documented in the [RosettaNet Control Interface](http://edocs.bea.com/workshop/docs81/doc/en/integration/reference/refRNInterface.html) topic in *WebLogic Integration Online Help*, available at <http://edocs.bea.com/workshop/docs81/doc/en/integration/reference/refRNInterface.html>.

If you use the code samples provided in this section, remember to also modify the the return type of your corresponding methods in your RosettaNet control definition file (JCX file). In other words, `public void sendMessage()` needs to be changed to `public RosettaNetContextDocument sendMessage()`

In addition, if you want to use the RosettaNetContext XMLBean in an XQuery transformation, you need to create the following schema and import it into a schemas folder in your project:

```

<?xml version="1.0" ?>
<xs:schema id="RosettaNetContext"
targetNamespace="http://www.bea.com/wli/control/rosettanetContext"
xmlns="http://www.bea.com/wli/control/rosettanetContext"
xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">

<xs:element name="RosettaNetContext">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="from" type="xs:string" minOccurs="0" maxOccurs="1"/>
      <xs:element name="to" type="xs:string" minOccurs="0" maxOccurs="1"/>
    
```

3 *Known Limitations*

```

        <xs:element name="pip" type="xs:string" minOccurs="0" maxOccurs="1"/>
        <xs:element name="pip-version" type="xs:string" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="from-role" type="xs:string" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="to-role" type="xs:string" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="failure-report-administrator" type="xs:string"
minOccurs="0" maxOccurs="1"/>
        <xs:element name="global-usage-code" type="xs:string" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="debug-mode" type="xs:string" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="message-tracking-id" type="xs:string" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="protocol-name" type="xs:string" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="protocol-version" type="xs:string" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="conversation-id" type="xs:string" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="process-instance-id" type="xs:string" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="process-uri" type="xs:string" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="business-action" type="xs:string" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="document-datetimestamp" type="xs:string" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="proprietary-identifier" type="xs:string" minOccurs="0"
maxOccurs="1"/>
    </xs:sequence>
</xs:complexType>
</xs:element>

</xs:schema>
```

To learn more about how to create and import schemas into your project, see [How Do I: Importing Files into the Schemas Project](http://edocs.bea.com/workshop/docs81/doc/en/integration/howdoI/howSchemas.html) available at:
<http://edocs.bea.com/workshop/docs81/doc/en/integration/howdoI/howSchemas.html>

Worklist

Worklist Substitution Rules Not Implemented for Groups

You cannot assign a task to a source group and have it forwarded it to a target group. This functionality is not implemented in this release.

Worklist Substitution Rule Not Implemented for `assignTaskToUser` Method

You cannot assign a task using the `assignTaskToUser` method. Use the `assignTaskToUsersAndGroups` method instead.

4 Problems Fixed in This Release

The following table lists selected problems fixed in BEA WebLogic Integration 8.1 Service Pack 2, including a CR (Change Request) number for each problem.

To learn more about the known limitation in the WebLogic Integration 8.1 Service Pack 2 release, see “Known Limitations” on page 3-1.

Table 1. Problems Fixed in BEA WebLogic Integration 8.1 Service Pack 2

Change Request Number	Description
CR111730	Problem: The XML document returned from the SAP does not escape reserved characters, for example: &. The returned XML document now escapes the reserved characters.
CR112755	Problem: The install service script created by Platform domain does not start up the server properly. A environment script called by service script is missing CLASSPATH entries. The CLASSPATH entries have been fixed and the server can now start without error.
CR117393	Problem: When some business processes are run, ejbLoad warnings are thrown during run time. (Problem reported with a business process with an OR join.) Workflow executes successfully despite the warning. Business processes no longer report these errors.

4 Problems Fixed in This Release

Change Request Number	Description
CR120220	<p>Problem: Format Builder only processes tagged groups or fields after the MFL file has been saved and then reloaded. If you do not save and reload the MFL file, the Format Builder fails to run this transformation and the following error is reported: Unable to parse tag field, need length or delimiter.</p> <p>The MFL document no longer must be saved and reloaded in order for tagged groups or fields to be processed without error.</p>
CR120260	<p>Problem: The message digest was missing from the RosettaNet 2.0 receipt acknowledgement. This can affect interoperability with trading partners using other RosettaNet implementations.</p> <p>The message digest is now included in the RosettaNet 2.0 receipt acknowledgement.</p>
CR120293	<p>Problem: A <code>java.lang.IllegalArgumentException</code> is thrown when extracting the top level node of a saved XmlBean in a business process. Problem occurs when the contents of the XmlBean are saved to local file and read again.</p> <p>The <code>java.lang.IllegalArgumentException</code> is no longer thrown for this case.</p>
CR120525	<p>Problem: The query generated for by the mapper for a transformation with mappings from attributes to elements can sometimes be incorrect. The query is sometimes missing the @ character.</p> <p>The correct query is now generated.</p>
CR120801	<p>Problem: In the WebLogic Workshop, during run time, invoking a Java Web Service which calls the SOAP 1.1 <code>setFaultcode()</code> method produces no error, but if the same Java Web Service is invoked from just a WebLogic Server, a method not found error is reported.</p> <p>In the <code>startWeblogic.cmd</code> script, the order of the jar files in the CLASSPATH was incorrect. The order of the jar files in the <code>startWebLogic.cmd</code> script of the WebLogic Server have been fixed to be consistent with the order of the jar files in WebLogic Workshop.</p>
CR121028	<p>Problem: While viewing process instance details in the WebLogic Integration Administration console, conversation not found errors and a <code>java.lang.NullPointerException</code> may be reported in the WebLogic Server console.</p> <p>In the WebLogic Integration Administration console, while viewing process instance details, these errors are no longer reported.</p>

Change Request Number	Description
CR121384	<p>Problem: During run time, while executing a transformation of XML data to non-XML data, if there are more than seven repeating elements in the input XML data, the <code>ArrayIndexOutOfBoundsException</code> exception is thrown.</p> <p>The limitation on the number of repeating elements in the input XML data has been removed.</p>
CR121479	<p>Problem: From a <code>WebService</code>, an asynchronous call of a control with XML parameter may throw the <code>java.lang.IllegalArgumentException</code>.</p> <p>This problem has been fixed in this release.</p>
CR121620	<p>Problem: Some email clients enclose the charset within double-quotes which causes an <code>UnsupportedException</code> when trying to use the encoding value to read data.</p> <p>This problem has been fixed, so the double quotes are removed if present.</p>
CR121767	<p>Enhancement: The File Control has been extended to create directories on write operations.</p>
CR121812	<p>Enhancement: The Javadoc for WLI Controls (for example the File Control) is now included in WebLogic Integration Javadoc which is available at the following URL: http://edocs.bea.com/wli/docs81/javadoc/index.html</p>
CR121912	<p>Problem: Calling the <code>getTaskProperty()</code> method may cause an exception.</p> <p>A task owner can now read the properties of a completed task by calling the <code>getTaskProperty()</code> method. An exception is no longer thrown for this case.</p>
CR122294	<p>Problem: In the Format Builder, when attempting to import some cobol copy books, the following error is reported: error: Missing USAGE and PICTURE clauses</p> <p>The Format Builder can now successfully import these cobol copy books.</p>
CR122405	<p>Problem: A <code>java.lang.NullPointerException</code> is thrown when some business process are run.</p> <p>The problem that caused the <code>java.lang.NullPointerException</code> to be thrown has been fixed.</p>

4 Problems Fixed in This Release

Change Request Number	Description
CR122513	<p>Problem: When a business process subscribes to an XML message through a channel and if the XML Message happens to be a SOAP Envelope, the business process can not access the SOAP headers because the channel strips off the headers. The header should be available by calling <code>context.getInputHeaders()</code> method but the <code>context.getInputHeaders()</code> method is returning null.</p> <p>The headers are no longer stripped by the channel and the calling the <code>context.getInputHeaders()</code> method returns the single header element.</p>
CR122661	<p>Problem: In the Format Builder, if you create a new MFL file with a repeat delimiter, when this file is saved, Format Builder adds a space to the delimiter.</p> <p>This extra space is not longer added to the repeat delimiter when the MFL file is saved.</p>
CR122761	<p>Problem: Using the File Control, if the <code>create-mode</code> attribute is set to <code>rename-old</code> in the <code>@jc:file</code> annotation, the <code>append file-operation</code> behaves incorrectly. The File Control creates the renamed file with the specified suffix, but all the appends go to the original file and the renamed file is empty.</p> <p>The File Control now behaves correctly and the appends to the file go to the renamed file.</p>
CR123380	<p>Problem: In WebLogic Workshop, when a business process is the active project, creating a custom control and then dragging that custom control to the Data Palette generates an incorrect control declaration and the following error is reported in the Source View of the business process (JPD file):</p> <pre>ERROR: process.jpdc:36:Cannot find the implementation for this control type.</pre> <p>ERROR: SUGGESTION: Verify that the control implementation is available for this project.</p> <p>The same error will be reported when you compile the business process.</p> <p>The correct control declaration is now generated, so these errors are no longer reported.</p>
CR123507	<p>Problem: When the worklist <code>TaskSelector.setCreationDateAfter</code> and <code>TaskSelector.setCreationDateBefore</code> methods are invoked, they are throwing the following exception:</p> <pre>com.bea.wli.worklist.api.ManagementException: [WLI-Worklist:610028]Internal error: unexpected ejb exception.</pre> <p>The worklist <code>TaskSelector.setCreationDateAfter</code> and <code>TaskSelector.setCreationDateBefore</code> methods have been fixed and are no longer throwing these exceptions erroneously.</p>

Change Request Number	Description
CR123858	<p>Problem: If international characters (for example Chinese characters) are used in business process node names or descriptions, when viewing these nodes in the SVG Viewer, some international characters are not displayed or are displayed incorrectly.</p> <p>International characters are now correctly displayed in the SVG Viewer.</p>
CR123963	<p>Problem: If international characters (for example Chinese characters) are used in business process node names or descriptions, viewing these nodes in the SVG Viewer may cause WebLogic Server to terminate unexpectedly.</p> <p>This problem has been fixed and displaying international characters in the SVG Viewer does not cause WebLogic Server to terminate unexpectedly, anymore.</p>
CR123981	<p>Problem: Creating JMS Event Generators for a domain with “multiple” clusters was not supported and the WebLogic Integration Administration console would throw an exception when it detected a domain with “multiple” clusters. A domain with “multiple” clusters contains one WebLogic Integration cluster and one or more non-WebLogic Integration clusters.</p> <p>Creating JMS Event Generators for a domain with “multiple” clusters is now supported, but the WebLogic Integration Administration console requires that the name of the cluster running the only instance of WebLogic Integration be specified in the <code>wli-config.properties</code> file. If name of the cluster is not specified in the <code>wli-config.properties</code> file, the WebLogic Server Administration Console will throw an exception. To learn more, see “Configuring a Clustered Deployment” in <i>Deploying WebLogic Integration Solutions</i> at the following URL:</p> <p>http://edocs.bea.com/wli/docs81/deploy/config.html</p>
CR124103	<p>Problem: When two or more managed servers are running with a worklist client and one of the managed server is brought down and then brought back up, the worklist client throws an internal error.</p> <p>This problem has been fixed.</p>
CR124400	<p>Problem: During run time, the text fields in XML documents processed by WebLogic Integration cannot have a UTF-8 encoded length of more than 65535 bytes.</p> <p>This limitation has been removed and XML documents can now be larger than 65535 bytes.</p>

4 Problems Fixed in This Release

Change Request Number	Description
CR124460	<p>Problems:</p> <ul style="list-style-type: none">■ When using a Business Calendar in the Timer Event Generator and the Frequency is set to a granularity of just "seconds", the triggering never happens.■ When using a Business Calendar in the Timer Event Generator and the Frequency is set to a granularity of "minutes", the triggering always happens with 1 extra minute delay. <p>The WebLogic Integration Administration console now reports an error if the Frequency of the Business Calendar in the Timer Event Generator is set to a granularity of just "seconds". During run time, the Timer Event Generator will now trigger at the exact time with no extra delay when using the Business Calendar.</p>
CR125087	<p>Problem: The SOAP body root node is being stripped in the Channel Subscription of a JMS Event Generator.</p> <p>The SOAP body root node is no longer being stripped.</p>
CR125154	<p>Problem: The Test View of the mapper does not generate the input XML test data correctly for XML Schemas that contain attributes with default or fixed values.</p> <p>The specified value for an attribute is the default value of the attribute in the generated input XML test data.</p>
CR126101	<p>Problem: The encoding of XML reserved characters (&, ', >, <, ") is incorrect in non-XML to XML transformations. For example the following input data non-XML data:</p> <pre>testing&</pre> <p>Was transformed to the following output:</p> <pre>testing &amp;amp;</pre> <p>The encoding of these XML reserved characters has been fixed.</p>
CR126408	<p>Problem: For transformations with a Java class as the output, during runtime the XQuery engine assumes all Java variables are required. If they are not defined in the input XML or they are left unmapped, the XQuery engine either sets empty string or throws a number format exception.</p> <p>By leaving fields in the target Java class unmapped, Java objects will now be set to null and a number format exception is no longer thrown.</p>

Change Request Number	Description
CR126422	<p>Problem: The worklist <code>TaskMessage.message</code> is a serialized java object of type byte array, so you can not simply cast a <code>TaskMessage.message</code> object to a <code>String</code> to view the XML data.</p> <p>The following methods have been provided to convert between the worklist <code>TaskMessage.message</code> java object and an <code>XmlObject</code>:</p> <pre>void setTaskResponseAsXmlObject(XmlObject response, String mimeType, String taskId) XmlObject getTaskResponseAsXmlObject(String taskId) void setTaskRequestAsXmlObject(XmlObject request, String mimeType, String taskId) XmlObject getTaskRequestAsXmlObject(String taskId)</pre>
CR126447	<p>Problem: The WebLogic Integration File Event Generator can lose files on errors.</p> <p>This problem has been fixed in this release.</p>
CR127694	<p>Problem:The App View client has the option named <code>setNamespaceEnforced</code> on the API for remote clients. The same option should be available for the control. XMLBeans does not allow retrieval of data when the namespace is not available in some cases.</p> <p>The <code>setNamespaceEnforced</code> option is now available for the control.</p>
CR127921	<p>Problem: Need to be able to read a RosettaNet Delivery and Service header in the initiator process.</p> <p><code>RosettaNetContext</code> has been provided and documented for this release. The <code>RosettaNetContext</code> is an XMLBean that can be used to obtain information from RosettaNet business messages. To learn more, see “RosettaNetContext” in “RosettaNet Control Interface” of the <i>WebLogic Workshop online help</i>, at the following URL: http://edocs.bea.com/workshop/docs81/doc/en/integration/reference/refRNInterface.html</p>
Restrictions on the Use of Message Ids	<p>Problem: Several WebLogic Integration components were logging cataloged message ids in the range 510000-518999, 61000-610999, 800000-800999, 900000-924999. These ranges overlay the range reserved for user message ids.</p> <p>These message ids have been renumbered into the BEA reserved range for this release.</p>

4 *Problems Fixed in This Release*
