



BEA WebLogic Integration™

Release Notes

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4. Problems Fixed in This Release

Introduction

This document provides release note information on the WebLogic Integration 8.1 Service Pack 3 release. This section includes the following topics:

- [What Is New in BEA WebLogic Integration 8.1 Service Pack 3](#)
- [Platform Support and System Requirements](#)
- [Tutorials](#)
- [WebLogic Integration 8.1 Archive Documentation](#)
- [WebLogic Integration 8.1 Service Pack 2 Archive Documentation](#)
- [Adapters](#)

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 3

The WebLogic Integration 8.1 Service Pack 3 release adds several performance and feature enhancements, including the following:

The performance and feature enhancements in the WebLogic Integration 8.1 Service Pack 3 release including the following:

- Support for complex types and local elements in business processes and in the mapper functionality of WebLogic Workshop.
- Non-persistent stateful processes are supported for business processes. Non-persistent stateful processes allow you to use stateful business processes that use computer memory rather than database persistence. To learn more see “Setting the Business Process Properties” in [Designing Your Application](http://edocs.bea.com/workshop/docs81/doc/en/integration/wfguide/wfguideCreateApp.html) available at the following URL:
<http://edocs.bea.com/workshop/docs81/doc/en/integration/wfguide/wfguideCreateApp.html>
- Performance and architectural changes in the IDE for building business processes. These include:
 - Improved IDE responsiveness and memory usage
 - Improved support for Java variables
 - Improved condition builders
 - Renaming of variables
 - Improved two-way editing
- New Mapper features:
 - Improved layout for usability
 - Improved link rendering and functionality on links in the mapper
 - Support for adding complex conditional expressions to transformations——For more information see [Adding a Constraint With Multiple Conditions](http://edocs.bea.com/workshop/docs81/doc/en/integration/dtguide/dtguidemapexamplescomplexconstraint.html) at the following URL:
<http://edocs.bea.com/workshop/docs81/doc/en/integration/dtguide/dtguidemapexamplescomplexconstraint.html>
 - Support for adding if-then-else expressions to transformations——For more information see “Adding If-Then-Else Constructs to a Link” in [Modifying Links Using the Target Expression Tab](http://edocs.bea.com/workshop/docs81/doc/en/integration/dtguide/dtguidemapperexpressbuilder.html) at the following URL:
<http://edocs.bea.com/workshop/docs81/doc/en/integration/dtguide/dtguidemapperexpressbuilder.html>
 - Support for converting data from a non-repeating source element to a repeating target group——For more information see [Creating a Transformation Between a Non-Repeating Source Element and Repeating Target Group](http://edocs.bea.com/workshop/docs81/doc/en/integration/dtguide/dtguidemapexamplestosingletorepeat.html) at the following URL:
<http://edocs.bea.com/workshop/docs81/doc/en/integration/dtguide/dtguidemapexamplestosingletorepeat.html>

- Support for converting data from a repeating source group and non-repeating target element—For more information see [Creating a Transformation Between a Repeating Source Group and Non-Repeating Target Element](http://edocs.bea.com/workshop/docs81/doc/en/integration/dtguide/dtguidemappexamplesrepeattosingle.html) at the following URL:
<http://edocs.bea.com/workshop/docs81/doc/en/integration/dtguide/dtguidemappexamplesrepeattosingle.html>
- Support for Block (Copy) link for transformations
- Improved the Induce Mapping feature from a Source to a Target Node—For more information see “Link Menu Options” in [Link Representations](http://edocs.bea.com/workshop/docs81/doc/en/integration/dtguide/dtguidemappersimplelinka.html) at the following URL:
<http://edocs.bea.com/workshop/docs81/doc/en/integration/dtguide/dtguidemappersimplelinka.html>
- Support for the dragging-and-dropping of functions and parameters
- Support for using recursive schemas in transformations—For more information see [Using Recursive Schemas in Transformations](http://edocs.bea.com/workshop/docs81/doc/en/integration/dtguide/dtguidemappexamplesrecursive.html) at the following URL:
<http://edocs.bea.com/workshop/docs81/doc/en/integration/dtguide/dtguidemappexamplesrecursive.html>
- New licensing option for WebLogic Integration—The WebLogic Server Process Edition is a new licensing option for WebLogic Integration. It provides a subset of the functionality of WebLogic Integration, including support for stateful and stateless processes, data transformation, and integration controls (Email, WLI JMS, Service Broker, HTTP, MQSeries). You use WebLogic Server Process Edition to develop standalone business process management (BPM) solutions. For more information see [BEA WebLogic Server Process Edition 8.1 Documentation](http://edocs.bea.com/wli/docs81/wlspe.html) available at the following URL:
<http://edocs.bea.com/wli/docs81/wlspe.html>
- New MQSeries control and event generator

The MQSeries control is functionally equivalent to the 8.1 MQ Series Adapter. Its functionality includes:

 - Implicit and explicit transaction management
 - Put and Get operations for messages
 - Support for setting MQMD properties for every Get and Put operation
 - Support the CICS, IMS and other user defined formats
 - Supports sending group Messages
 - Support for requesting MQSeries reports while sending messages

- MQ Series exit interfaces implementation (send, receive, security) for outbound services
- II8N Compatibility
- MQ Authorization

The MQSeries Event Generator provides a high performance option of publishing MQSeries messages to the Message Broker. The WebLogic Integration Administration console now supports the creation of MQ Event Generators and the MQ Series Event Generator can now be deployed in a clustered node

For more information, see [MQSeries Control](#) at the following URL:

<http://edocs.bea.com/workshop/docs81/doc/en/integration/controls/controlMQSeries.html>

- New HTTP control and event generator—The HTTP control provides outgoing HTTP access to WebLogic Workshop clients. It can be used with WebLogic Workshop and business processes to process HTTP requests and responses. The HTTP control supports GET and POST request methods for data transfer. You can specify HTTP control properties in an annotation, or pass dynamic properties using an XML variable. Inbound HTTP requests can be processed with the HTTP Event Generator. For more information, see [Http Control](#) at the following URL:

<http://edocs.bea.com/workshop/docs81/doc/en/integration/controls/controlSHTTP.html>

In addition the following functionality was added for the HTTP control and event generator:

- The WebLogic Integration Administration console now supports the creation of HTTP Event Generators.
- HTTP Event Generator supports a Synchronous subscription with return.
- HTTP Event Generator supports a Multipart response.
- HTTP Event Generator can be deployed in Clustered node.
- Implementation of a new near real-time reporting data stream (RDS) resulting in improved performance and almost real-time updates to the archive database in the WebLogic Integration Tracking and Archiving system.
- Parent-Child process monitoring is supported in the WebLogic Integration Administration Console.—For a scenario in which you use a Process control, you can track and monitor the child processes started by that Process control. You can see a table of the child processes (both Running and Completed) in the Process Instance Details (administration

console) page associated with the Running parent process. You can click on one of the child process instances to access the corresponding Process Instance Details page of that child process. For more information, see “Parent-Child Navigation”, in “Viewing Process Instance Details”, in [Process Instance Monitoring](#) at the following URL:

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

- Context Sensitive Help (F1 Help) available for business processes in the IDE and for the mapper features

For more information about what is new in the WebLogic Platform 8.1 Service Pack 3 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 3 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/suppconfigs/index.html>

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/tutWLIPProcessIntro.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/wltutorial/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>

WebLogic Integration 8.1 Archive Documentation

For an archive version of the WebLogic Integration 8.1 documentation (including the WebLogic Integration 8.1 version of the release notes), see the following URL:

http://edocs.bea.com/wli/docs81/zip/wli_docs81.zip

WebLogic Integration 8.1 Service Pack 2 Archive Documentation

For an archive version of the WebLogic Integration 8.1 Service Pack 2 documentation (including the WebLogic Integration 8.1 Service Pack 2 version of the release notes), see the following URL:

http://edocs.bea.com/wli/docs81/zip/wli_docs81sp2.zip

Note: If you are upgrading from the initial release of BEA WebLogic Integration 8.1 to BEA WebLogic Integration 8.1 Service Pack 3, you must first upgrade to BEA WebLogic Integration 8.1 Service Pack 2. For more information about upgrading from the initial release of BEA WebLogic Integration 8.1 to BEA WebLogic Integration 8.1 Service Pack 2, you do not need to view the archive version of the SP2 Release Notes, this information is included in the SP3 version of the release notes. To learn more see [“Upgrading from WebLogic Integration 8.1 to 8.1 SP2” on page 2-12.](#)

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

Upgrading to WebLogic Integration 8.1 SP3

This section provides information on upgrading the initial release of BEA WebLogic Integration 8.1 or BEA WebLogic Integration 8.1 Service Pack 2 (SP2) to BEA WebLogic Integration 8.1 Service Pack 3 (SP3).

If you are upgrading from the initial release of BEA WebLogic Integration 8.1 to BEA WebLogic Integration 8.1 Service Pack 3, you must first upgrade to BEA WebLogic Integration 8.1 Service Pack 2. To learn more about upgrading from the initial release of BEA WebLogic Integration 8.1 to BEA WebLogic Integration 8.1 Service Pack 2, see [“Upgrading from WebLogic Integration 8.1 to 8.1 SP2” on page 2-12](#).

This section includes the following topics:

- [Ways to Upgrade WebLogic Integration 8.1 SP2](#)
- [Upgrading Domains](#)
- [Upgrading Databases](#)
- [Compatibility Information](#)
- [Upgrading from WebLogic Integration 8.1 to 8.1 SP2](#)

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 SP2

WebLogic Integration 8.1 SP3 is installed as part of WebLogic Platform 8.1 SP3. You can upgrade from WebLogic Integration 8.1 SP2 to WebLogic Integration 8.1 SP3 using one of the following ways:

- A new installation of WebLogic Integration 8.1 SP3 that is separate from the existing WebLogic Integration 8.1 SP2 installation. When installing WebLogic Integration 8.1 SP3 in this manner, you should install it in a separate home directory from the existing WebLogic Integration 8.1 SP2 installation. For this type of installation, you can use either the net installer or package installer of WebLogic Platform 8.1 SP3 for your operating system

For information about upgrading WebLogic Platform 8.1 SP3 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 SP3 that is installed over the existing WebLogic Integration 8.1 SP2 installation. For this type of installation, you should use Smart Update.

For information about upgrading WebLogic Platform 8.1 SP3 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 for WebLogic Integration 8.1 SP2 must be upgraded to run with WebLogic Integration 8.1 SP3.

To help you upgrade your WebLogic Integration domains, upgrade scripts are included in WebLogic Integration 8.1 SP3. These scripts facilitate upgrading domains, including those domains created with the BEA WebLogic 8.1 SP2 Configuration Wizard.

This section includes information on the following topics:

- [Prerequisites](#)
- [Upgrading an Existing Single Node Domain to the Latest Service Pack](#)
- [Upgrading an Existing Clustered Domain to the Latest Service Pack](#)

Prerequisites

This section contains information you should be aware of before upgrading WebLogic Integration 8.1 SP2 to WebLogic Integration 8.1 SP3. To learn more about upgrading your WebLogic Platform installation, see “Before You Upgrade Your Systems” in *Upgrade Planning Guide* at the following URL:

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

Note: If your SP2 domain contains both WebLogic Integration and a WebLogic Portal resources, please review the information in the “Upgrading WebLogic Platform Domains and Applications to the Latest Service Pack” section in the [Upgrade Planning Guide](#) available at the following URL:

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

WebLogic Integration 8.1 Service Pack 2

Before you upgrade your WebLogic Integration 8.1 SP2 system, make sure that your WebLogic Platform 8.1 SP2 system is fully patched. In particular, make sure you have downloaded and installed the WebLogic Platform 8.1 SP2 SDK1.4.2/Oracle10gdriver/Database patch. This patch, along with a description of the specific configurations that require it, are available at the following dev2dev Web site:

http://dev2dev.bea.com/products/wlplatform81/patch/wlplat81sp2_patch.jsp

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 using sh or ksh: `./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 That Uses 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 redeploy it using the WebLogic Integration Administration Console or the command line deployer.

Upgrading an Existing Single Node Domain to the Latest Service Pack

The steps for upgrading an existing single node domain generated for WebLogic Integration 8.1 SP2 to WebLogic Integration 8.1 SP3 is provided in this section. Another way to update to a WebLogic Integration 8.1 SP3 domain is to create a new SP3 domain and move your existing SP2 application to the new domain. To learn more see “Creating a New Domain and Deploying Applications Into It” in [Roadmap for Upgrading WebLogic Platform](http://edocs.bea.com/wli/docs81/index.html/platform/docs81/upgrade/roadmap.html) available at the following URL:

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

To upgrade an existing single node domain generated for WebLogic Integration 8.1 SP2 to WebLogic Integration 8.1 SP3, complete the following steps:

1. For the domain being upgraded, shut down any running instances of WebLogic Server.
2. If you are using PointBase as your database, follow the procedure in “[Upgrading Pointbase.](#)”
3. Locate the `options.properties.sample` file in the following directory:

`BEA_HOME/weblogic81/integration/upgrade`

Note: Where `BEA_HOME` represents the WebLogic Platform Home.

4. Using the `options.properties.sample` file as a template, create a file named `options.properties`, and specify the following values in it:
 - `domain.path` (Path of the domain to upgrade.)
 - `beahome.2.path` (Path to the WebLogic Integration 8.1 SP2 installation.)
 - `beahome.3.path` (Path to the WebLogic Integration 8.1 SP3 installation.)

Note: Use “/” as a file separator.

Note: If you have upgraded to SP3 using Smart Update, `beahome.2.path` and `beahome3.path` should specify the same directory path. For example on Windows if you installed SP2 in the `c:/bea` directory and then used the Smart Update to upgrade that installation to SP3, both `beahome2.path` and `beahome3.path` should point to the `c:/bea` directory.

Windows example: If WebLogic Integration 8.1 SP2 is installed on `C:/beaSP2`, WebLogic Integration 8.1 SP3 is installed on `C:/beaSP3`, and the WebLogic Integration 8.1 SP2 domain to upgrade is located at `C:/beaSP2/user_projects/domains/integration`, you would set these properties as follows:

- `domain.path=C:/beaSP2/user_projects/domains/integration`
- `beahome.2.path=C:/beaSP2`
- `beahome.3.path=C:/beaSP3`

UNIX example:

- `domain.path=/home/beaSP2/user_projects/domains/integration`
- `beahome.2.path=/home/beaSP2`
- `beahome.3.path=/home/beaSP3`

Note: BEA recommends that you use the option `backup=true`. Setting this option to `true` in your `options.properties` file means that the domain specified in the `domain.path` is backed up to `domain.path_BK_timestamp`.

5. Edit the `workshop.properties` file in the domain directory and change the relative paths of the `wlsHome.path` and `jdkHome.path` variables to absolute paths as shown in the following section of an example `workshop.properties` file on Windows:

Original Relative Path Settings:

```
wlsHome.path=../../../weblogic81
jdkHome.path=../../../jdk141_05
```

Example Absolute Path Settings:

```
wlsHome.path=C:/beaSP2/weblogic81
jdkHome.path=C:/beaSP2/jdk141_05
```

6. The upgrade scripts are located in the following directory:
`BEA_HOME/weblogic81/integration/upgrade`
7. Run the upgrade script for the domain that you have created:

```
ant -f domain_upgrade.xml upgrade -Doptions.properties=your_options_file
-Dsingle.node=true -Ddb_type=your_db_vendor -Ddb_user=user_name
-Ddb_password=password -Ddb_server=your_server:port
-Ddb_name=database_name
```

Where *your_options_file* is usually called `options.properties` and *your_db_vendor* is one of the following options: `oracle`, `sybase`, `mssql`, `db2`, or `pointbase`. The *user_name* and *password* is a valid username and password for the database. For help on the ant syntax, type `ant` on the command line.

Note: Upgrading the database structure is implicit in the upgrade process. If you prefer to do this as a separate step, you must invoke the upgrade script with the database flag set to false as follows: `-Ddb_upgrade=false` and then upgrade the database manually.

Note: You must set this flag to false and upgrade your database manually if you are using Pointbase. To learn more about upgrading the database manually, see “[Upgrading Databases](#)” on page 2-10. The databases must be upgraded before you start the WebLogic Integration 8.1 SP3 server in the upgrade domain.

To learn more about domains, see System Administration in the WebLogic Server documentation at the following URL:

<http://edocs.bea.com/wls/docs81/admin.html>

Note: Do not upgrade your domain more than once. If you do, the domain upgrade process will fail with an error.

Upgrading an Existing Clustered Domain to the Latest Service Pack

Upgrading an existing 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 as described in this section.

Running the Upgrade Script to Update an Existing Cluster Domain

To run the upgrade script to upgrade an existing clustered domain that was generated in the WebLogic Integration 8.1 SP2 Configuration Wizard for compatibility with WebLogic Integration 8.1 SP3, complete the following steps:

1. For the domain being upgraded, shut down any running instances of WebLogic Server.
2. If you are using PointBase as your database, follow the procedure in “[Upgrading Pointbase.](#)”

3. Locate the `options.properties.sample` file in the following directory:

`BEA_HOME/weblogic81/integration/upgrade`

Note: Where `BEA_HOME` represents the WebLogic Platform Home.

4. Using the `options.properties.sample` file as a template, create a file named `options.properties`, and specify the following values in it:

- `domain.path` (Path of the domain to upgrade.)
- `beahome.2.path` (Path to the WebLogic Integration 8.1 SP2 installation.)
- `beahome.3.path` (Path to the WebLogic Integration 8.1 SP3 installation.)

Note: Use “/” as a file separator.

Note: If you have upgraded to SP3 using Smart Update, `beahome.2.path` and `beahome.3.path` should specify the same directory path. For example on Windows if you installed SP2 in the `c:/bea` directory and then used the Smart Update to upgrade that installation to SP3, both `beahome2.path` and `beahome3.path` should point to the `c:/bea` directory.

Windows example: If WebLogic Integration 8.1 SP2 is installed on `C:/beaSP2`, WebLogic Integration 8.1 SP3 is installed on `C:/beaSP3`, and the WebLogic Integration 8.1 SP2 domain to upgrade is located at `C:/beaSP2/user_projects/domains/integration`, you would set these properties as follows:

- `domain.path=C:/beaSP2/user_projects/domains/integration`
- `beahome.2.path=C:/beaSP2`
- `beahome.3.path=C:/beaSP3`

UNIX example:

- `domain.path=/home/beaSP2/user_projects/domains/integration`
- `beahome.1.path=/home/beaSP2`
- `beahome.2.path=/home/beaSP3`

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

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

`BEA_HOME/weblogic81/integration/upgrade`

6. Edit the `workshop.properties` file in the domain directory and change the relative paths of the `wlsHome.path` and `jdkHome.path` variables to absolute paths as shown in the following section of an example `workshop.properties` file on Windows:

Original Relative Path Settings:

```
wlsHome.path=../../../weblogic81
jdkHome.path=../../../jdk141_05
```

Example Absolute Path Settings:

```
wlsHome.path=C:/beaSP2/weblogic81
jdkHome.path=C:/beaSP2/jdk141_05
```

7. 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
-Ddb_type=your_db_vendor -Ddb_user=your_user_name
-Ddb_password=your_password -Ddb_server=your_server:your_port
-Ddb_name=your_database_name
```

Note: Upgrading the database structure is implicit in the upgrade process. If you prefer to do this as a separate step, you must invoke the upgrade script with the database flag set to false as follows: `-Ddb_upgrade=false`

Note: You must set this flag to false and upgrade your database manually if you are using Pointbase. To learn more about upgrading the database manually, see [“Upgrading Databases” on page 2-10](#). The databases must be upgraded before you start the WebLogic Integration 8.1 SP3 server in the upgrade domain.

8. Delete the staging directories for the admin and managed servers in upgraded domain. This will ensure that all the servers get the upgraded WebLogic Integration applications from the WebLogic Integration 8.1 SP3 installation rather than the local staging directories which may be outdated. For example, if your domain contains an admin server named `cgServer` and two managed servers named `new_managedServer_1` and `new_managedServer_2`, go to the directory that contains the domain and delete the directories (including the contents) named `cgServer`, `new_managedServer_1`, and `new_managedServer_2`.
9. 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 2-10](#).

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>.

Creating the Required WebLogic Integration Queues For a Clustered Domain

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 SP3 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.b2b.mt.event.stream
wli.b2b.mt.event.stream_error
wli.process.event.stream
wli.process.event.stream_error
```

3. In the WebLogic Server Administration Console, create the queues named `wli.internal.scheduling.queue` and `wli.internal.scheduling.queue_error`.

Note: Both of these queues are not distributed queues.

4. For each distributed member of `wli.b2b.mt.event.stream`, set the error destination queue to `wli.b2b.mt.event.stream_error`.
5. For each distributed member of `wli.process.event.stream`, set the error destination queue to `wli.process.event.stream_error`.
6. For `wli.internal.scheduling.queue`, set the error destination queue to `wli.internal.scheduling.queue_error`.

Note: `wli.internal.scheduling.queue` is not a distributed queue.

7. Modify the following attributes on error queues:
 - a. For each distributed member of `wli.b2b.mt.event.stream_error`, set `RedeliveryLimit="0"`.
 - b. For each distributed member of `wli.process.event.stream_error`, set `RedeliveryLimit="0"`.
 - c. For each distributed member of `wli.internal.scheduling.queue_error`, set `RedeliveryLimit="0"`.
 - d. For each distributed member of `wli.b2b.mt.event.stream`, set `RedeliveryLimit="1"` and `RedeliveryDelayOverride="5000"`.

- e. For each distributed member of `wli.process.event.stream`, set `RedeliveryLimit="1"` and `RedeliveryDelayOverride="5000"`.

Upgrading Databases

If you suppressed the automatic upgrading of the databases when you upgraded the domain, you must upgrade the database manually before you can start the WebLogic Server 8.1 Service Pack 3. If you did not suppress the database upgrade during the domain upgrade process, you do not need to do any further database upgrade.

The database schemas in WebLogic Integration 8.1 SP3 have changed from WebLogic Integration 8.1 SP2. To update your databases manually, 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
- DB2 8.1
- Microsoft SQL Server 2000

Note: If you are using the Pointbase database, see [“Upgrading Pointbase.”](#)

To manually upgrade databases from WebLogic Integration 8.1 SP2 to WebLogic Integration 8.1 SP3, complete the following steps:

1. If you are using PointBase as your database, follow the procedure in [“Upgrading Pointbase.”](#)
2. The database upgrade scripts are located in the following directory:

On Windows:

`BEA_HOME\weblogic81\integration\dbscripts\db_directory`

On UNIX:

`BEA_HOME/weblogic81/integration/dbscripts/db_directory`

Here, `BEA_HOME` represents the WebLogic Platform Home, and `db_directory` represents `oracle`, `pointbase`, `sybase`, `db2`, or `mssql`.

3. Run the following database upgrade script:

– `upgrade_runtime_sp2_sp3.sql`

4. Start WebLogic Integration 8.1 SP3 server from the upgraded domain.

Upgrading Pointbase

If you are using the Pointbase database, you must upgrade it manually.

To manually upgrade the Pointbase database from WebLogic Integration 8.1 SP2 to WebLogic Integration 8.1 SP3, complete the following steps:

1. Start the PointBase server:
 - a. Open either a UNIX shell or a Windows command prompt window and navigate to the domain root for the domain you just upgraded.
 - b. Run the `setdomainenv` script.
 - c. Start the PointBase server:

On Windows:

```
WL_HOME\common\bin\startPointBase.cmd -port=9093 -debug=0
-console=false -background=true -ini=DOMAIN_HOME\pointbase.ini >
DOMAIN_HOME/pointbase.log 2>&1
```

On UNIX:

```
WL_HOME/common/bin/startPointBase.sh -port=9093 -debug=0
-console=false -background=true -ini=DOMAIN_HOME\pointbase.ini >
DOMAIN_HOME/pointbase.log 2>&1
```

Note: This is a generic PointBase startup command. You may need to customize this command if you are not using the default directories.

2. To upgrade the database, execute the following command:

```
ant -f domain_upgrade.xml upgrade_dbs
```

Compatibility Information

There is a security compatibility issue with the `@common:security roles-allowed` annotation. To learn more about this issue, see [Security Incompatibility](#).

The method signature for HTTP GET for the HTTP control has been changed in this release. An additional `String` argument has added to the `sendDataAsHttpGet` method to specify the charset used to encode the parameters, as shown in the following signature:

```
ResponseDocument sendDataAsHttpGet(ParametersDocument parameters, String
charset)
```

During run time, if `charset` argument is an empty string or a null the default encoding (UTF-8) is used.

Upgrading from WebLogic Integration 8.1 to 8.1 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.

If you are using the initial release of BEA WebLogic Integration 8.1, you must upgrade to BEA WebLogic Integration 8.1 Service Pack 2 before you then upgrade to BEA WebLogic Integration 8.1 Service Pack 3.

This section includes the following topics:

- [Ways to Upgrade WebLogic Integration from 8.1 to 8.1 SP2](#)
- [Upgrading Domains from 8.1 to 8.1 SP2](#)
- [Upgrading Databases from 8.1 to 8.1 SP2](#)
- [Compatibility Information \(8.1 to 8.1 SP2\)](#)

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 from 8.1 to 8.1 SP2

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 from 8.1 to 8.1 SP2

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 an Existing Single Node Domain to the Latest Service Pack](#)
- [Upgrading an Existing Clustered Domain to the Latest Service Pack](#)

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:
3. **UNIX using sh or ksh:** `./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 redeploy it 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 a file named `options.properties`, and specify the following values in it:

- `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.

Note: If you have upgraded to SP2 using Smart Update, `beahome.1.path` and `beahome.2.path` should specify the same directory path. For example on Windows if you installed WebLogic Integration 8.1 in the `c:/bea` directory and then used the Smart Update to upgrade that installation to SP2, both `beahome.1.path` and `beahome.2.path` should point to the `c:/bea` directory.

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. Remove all instances of the directory `.wlnotdelete` in your domain.
5. The upgrade scripts are located in the following directory:

`BEA_HOME/weblogic81/integration/upgrade`

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 -Ddb_type=your_db_vendor
-Ddb_user=your_user_name -Ddb_password=your_password
-Ddb_server=your_server:your_port -Ddb_name=your_database_name
```

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 2-10.

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 a file named `options.properties`, and specify the following values in it:
 - `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.

Note: If you have upgraded to SP2 using Smart Update, `beahome.1.path` and `beahome.2.path` should specify the same directory path. For example on Windows if you installed WebLogic Integration 8.1 in the `c:/bea` directory and then used the Smart Update to upgrade that installation to SP2, both `beahome.1.path` and `beahome.2.path` should point to the `c:/bea` directory.

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

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

`BEA_HOME/weblogic81/integration/upgrade`

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
-Ddb_type=your_db_vendor -Ddb_user=your_user_name
-Ddb_password=your_password -Ddb_server=your_server:your_port
-Ddb_name=your_database_name
```

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 2-10.

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 from 8.1 to 8.1 SP2

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 (8.1 to 8.1 SP2)

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 7.0 SP4 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 are supported with known issues:

- **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

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>

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>
```


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`

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>
```

Known Limitations

This section describes known limitations in the BEA WebLogic Integration 8.1 Service Pack 3 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 and Operating Systems](#)
- [Trading Partner Integration](#)
- [WebLogic Workshop Online Help](#)
- [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>

Reference CR133844

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.

Reference CR154030

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*.

Reference CR128232

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>

Reference CR137963

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).

Reference CR156713

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

Reference CR155391

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.

Reference CR154275

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.

Reference CR138589

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.

Reference CR138781

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>

Reference CR155267

Purge Delay Greater Than Approximately 24 Days is Effectively Zero

The maximum purge delay is approximately 24 days. If the duration set for the purge delay is greater than the maximum, the setting is effectively zero and process tracking data is subject to purge by the purge process as soon process instances are completed or terminated.

Workaround: Do not set a purge delay of greater than 23 days. If you require a longer purge delay, contact customer support to obtain a patch.

Reference CR185682

Only the Default (Active) Security Realm Can Be Viewed and Updated from the WebLogic Integration Administration Console

The user management module of the WebLogic Integration Administration Console can be used to view and update the users, groups, and roles in the security realm currently set as the default (active) security realm. To learn more about the WebLogic Integration Administration Console requirements for user management, see "Security Provider Requirements for User Management" in *Managing WebLogic Integration Solutions* at the following URL:

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

To learn about setting a security realm as the default (active) security realm, see "Customizing the Default Security Configuration" in *Managing WebLogic Security* at the following URL:

<http://edocs.bea.com/wls/docs81/secmanage/realm.html>

Reference CR182168

Process Instance Information May Not Be Available to the Console Until a Failed Managed Server Recovers

When a managed server failure leaves Oracle with an in-doubt transaction, an exception will be generated when you try to access the Process Instance Statistics or Process Instance Summary pages. Until the managed server has recovered, the ability of the WebLogic Integration Administration Console to fulfill requests for process instance information will be limited. To learn more about recovery from failure in an Oracle environment, see “[Considerations for Recovery after Managed Server Failure in Oracle Environments](#)” in the “Cluster Configurations” section.

Reference CR138966 and CR138664

Issues Related to the Calculation of Business Time Based on a Business Calendar

Issues related to the calculation of business time based on a business calendar have been reported. On request, a patch can be made available to address these issues. Reference CR181791 when contacting customer support.

Reference CR181791

Application Integration

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.

Reference CR154748

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.

Reference CR155627

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.

Reference CR155462

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.

Reference CR155471

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.

Reference CR155711

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.

Workaround: Follow the recommended practices described in [Facilitating the Timely Recovery of Active Transactions in the Event of an XA-Capable EIS Failure](#).

Reference CR138607

Facilitating the Timely Recovery of Active Transactions in the Event of an XA-Capable EIS Failure

When an XA-capable EIS fails, transactions are often left active until the WebLogic Server TransactionManager can contact the EIS resource manager to complete the transactions (by either committing them or rolling them back).

In the event of a failure, the following practices will allow the WebLogic Server Connector container and TransactionManager to properly re-establish communication with the EIS and recover the active transactions.

In the event of a failure:

1. Verify that the adapter instances for the unavailable EIS are suspended in the OA&M console.
2. Verify that any dependent application views are also suspended.

When the EIS instance becomes available again, do the following:

1. Resume the adapter instances for that EIS instance and redeploy them from the OA&M console.
2. Resume any dependent application views.

Failure to employ these practices can leave transactions against the EIS instance active even after the EIS instance becomes available. In the case of the EIS being a database, this can leave row/table locks in place. Regardless of EIS type in-doubt transactions can cause failures in executing previously suspended and future application view services.

Reference CR138345

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.

Reference CR138630

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.

Reference CR156862

Async Service Counts and Suspended Async Service Counts Can Be Incorrect in Cases Where Database or EIS Failures Occur

If an XA-capable EIS being used for async service invocations fails, or if the database being used for JMS persistence fails, the transaction enclosing the work being done by an async service will be rolled back. This rolls the async service request itself back onto the AI async request queue, and allows the request to be retried. However, the transaction rollback affects only the async service request and any work it may have done against the EIS, and does not affect the suspended async service counts displayed in the WebLogic Integration Administration Console for an application view or adapter instance.

Thus, in cases where the EIS or JMS database fails after the async service count has been incremented to account for a successful async service invocation, and before the containing transaction in the async service processor MDB is committed, the async service count will higher than the actual effective service count against the EIS (since the work done will be rolled back, but count is not decremented).

In cases where the EIS or JMS database fails after a suspended async service completes, and the suspended async service count has been decremented, and before the containing transaction in the async service processor MDB is committed, the suspended async service count will lower than the actual effective suspended service count in the application integration async request queue (since the request was rolled back, but suspended count is not incremented).

Administrators should be watchful for failures in either a transactional EIS or database (generally they will see service failures and a suspended adapter instance and application view related to the EIS failure). After the EIS has recovered from such a failure and suspended async services have been given sufficient time to complete, the administrator should check the suspended async service count. If the count is non-zero (or even negative), the count is incorrect.

To allow administrators to force the suspended async service count back to zero in those cases that the displayed count is incorrect, the `resetSuspendedAsyncServiceCounts()` method has been added to the `AppViewSummaryMBean` interface. See the Javadoc at the following URL:

<http://edocs.bea.com/wli/docs81/javadoc/com/bea/wlai/management/runtime/AppViewSummaryMBean.html>

Reference CR138792

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.

Reference CR157033

In Iterative Development Mode, Applications Deployed as EAR, JAR, WAR, or RAR files Are Not Available to Clients Such as the Application View Design Console

When the server is running in iterative development mode, only applications that are in exploded form in the Workshop Application pane may be accessed by clients such as the Application View Design Console. Applications that are packaged into a deployed EAR file are not accessible.

In other words, when you are running in iterative development mode, the following conditions must be met for an application to be available to for selection in the Application View Design Console:

- The application must be in exploded form (it cannot be an EAR, JAR, WAR or RAR file).
- The application directory must contain a file with the extension `.work`.

Reference CR171722

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.

Reference CR138164

Versioning a Stateful Business Process Can Cause `ClassNotFoundException` in Previously Non-versioned Instances

If you have a non-versioned business process that you later decide to version, when you deploy the versioned process, running instances might fail due to a `java.lang.ClassNotFoundException`.

Workaround: If you ever plan to use versioning with a long-running business process, version your process from the beginning before deploying your application in production mode. Otherwise, you must let non-versioned instances run to completion before deploying the new versioned process.

Reference CR185348

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.

Reference CR155294

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.

Reference CR155813

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.

Workaround: If the **create-mode** attribute specifies **rename-old**, you must specify a value for the **suffix-name**.

Reference CR1455408

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"
 */
```

Reference CR154487

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'].
```

Reference CR110539

“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.

Reference CR156324

JPD Session Bean Timeout Value Affects Long-running Transactions

In WebLogic Integration, business process (JPD) generated session beans have a default timeout value of 300 seconds. If this value is insufficient and leads to the timing out of long-running processes, you can alter this value. Information about this value, is located in the WebLogic Server documentation; see “trans-timeout-seconds” in Programming WebLogic Enterprise JavaBeans in the [weblogic-ejb-jar.xml Deployment Descriptor Reference](http://e-docs.bea.com/wls/docs81/ejb/DDreference-ejb-jar.html), which is located at the following URL:

```
http://e-docs.bea.com/wls/docs81/ejb/DDreference-ejb-jar.html
```

Reference CR185927

Delay in Message Delivery to Business Processes that Subscribe to JMS Channels

When running a business process with subscriptions to Message Broker, it is possible that the Message Driven Beans (MDBs) quickly reach maximum and the server temporarily hangs. After processing resumes, one message is ignored the remaining messages are processed; the ignored message is processed last.

Workarounds:

If your application includes blocking calls, such as `toJMSReceive()`, you should partition the component that blocks into its own project. This will avoid a potential deadlock against the `AsyncDispatcher` queue. (This is the preferred workaround.)

3. For the following use case:

Java Message Service (JMS) has a pipeline for each consumer (MDB) of events. By default this is 10, that is there can be 10 messages in a consumer's pipeline at one time. If that consumer is blocked processing the first event, the follow up event behind it in the pipeline will not get through. This pipeline is defined by the `MessagesMaximum` attribute on the connection factory. By default, WebLogic Integration uses the default WebLogic Server connection factory for generated MDBs and no hook exists to set `MessagesMaximum` for the default connection factory.

The workaround is as follows:

- a. Add `MessagesMaximum="1" XAConnectionFactoryEnabled="true"` to `approval.QueueConnectionFactory`.
- b. Associate project MDBs with this connection factory. In `weblogic-ejb-jar.xml`, add a `connection-factory-jndi-name` element to `message-driven-descriptor` as follows:

```
<message-driven-descriptor>
  <destination-jndi-name>
    ApprovalsPathway.queue.AsyncDispatcher
  </destination-jndi-name>
  <connection-factory-jndi-name>
    approval.QueueConnectionFactory
  </connection-factory-jndi-name>
</message-driven-descriptor>
```

Note: It is also recommended to apply the patch for CR110911; this includes a fix for handling the pipeline for transactional MDBs.

Reference CR177070

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.

Reference CR138620

SOAPFaultException Not Supported for Generating SOAP Faults from JPDs

While you can use `javax.xml.rpc.soap.SOAPFaultException`, as discussed in the WebLogic Workshop Help, in [Generating SOAP Faults from a Web Service](http://edocs.bea.com/workshop/docs81/doc/en/workshop/guide/progmodel/conGeneratingSoapFaults.html) at <http://edocs.bea.com/workshop/docs81/doc/en/workshop/guide/progmodel/conGeneratingSoapFaults.html>, this does not work in a business process.

For a SOAP fault to be returned to the JPD client, throw `com.bea.jws.SoapFaultException` instead of `javax.xml.rpc.soap.SOAPFaultException`. See [SoapFaultException Class](http://edocs.bea.com/workshop/docs81/doc/en/workshop/java-class/com/bea/jws/SoapFaultException.html) at <http://edocs.bea.com/workshop/docs81/doc/en/workshop/java-class/com/bea/jws/SoapFaultException.html>.

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.

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 WebLogic Workshop Help, which is located at the following URL:

<http://edocs.bea.com/workshop/docs81/doc/en/workshop/guide/converse/conControllingConversationLifetime.html>

Cluster Configurations

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.

Reference CR136666

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 Deployment](#) 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.

Reference CR155737

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.

Reference CR155402 and CR156912

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*.

Reference CR138787 and CR138835

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:

- The following Oracle exception may be thrown:

```
ORA-01591: lock held by in-doubt distributed transaction
global_tran_id
```

- 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*.

Workaround: You can also administratively resolve the in-doubt transaction (*transaction_id*) on Oracle by executing either a COMMIT or a ROLLBACK command. For example:

```
COMMIT FORCE 'local_tran_id'
```

```
ROLLBACK WORK FORCE 'local_tran_id'
```

Note: Another administrative approach to resolving this situation is for a qualified Oracle system administrator to analyze the database, locate the tables where in-doubt transactions occur, and reduce the number of rows per block in those tables. This tuning technique should be applied very selectively; while it reduces the likelihood of overlapping transactions occurring in those blocks, it also has performance ramifications for the database.

Reference CR157014, CR138787, and CR138835

After Slow Managed Server Recovery, WebLogic Integration Document Store Garbage Collection May Fail to Restart

WLIAdminMDB is the MDB responsible for garbage collection in the WebLogic Integration Document Store. If, after a failure, the time the managed server running WLIAdminMDB takes to recover exceeds WLIAdminMDB's restart waiting period (about 15 minutes), the MDB throws an exception (usually `javax.jms.JMSEException`) that is reported in the domain's `workshop_debug.log`. In this case, the Document Store garbage collection function is disabled, and the size of the Document Store will increase indefinitely if no action is taken.

Workaround: Restart the managed server running WLIAdminMDB.

Reference CR138844

On DB2, Process Instance May Remain in Running Mode Indefinitely After Recovery

After performing JTA and JMS migrations from a failed managed server, a process instance may remain in running mode. A repeating set of error messages similar to the following appears in `db2diag.log`:

```
Instance:DB2 Node:000
PID:3888(db2syscs.exe) TID:5400 Appid:/1721616.3366.00090031001F
data protection sqlpxTEntrySwitchIn Probe:300 Database:DBNAME
```

```
DIA8036C XA error with request type of "". Transaction was not found.
ZRC=0x80100024.
```

Reference CR182788

Increase Thread Stack Size Appropriately When Running WebLogic Integration in a Cluster with WebLogic JRockit

When running WebLogic Integration in a cluster with JRockit, the JVM may report a `Stack Overflow`. If not addressed, the problem can eventually result in a JVM core dump. To prevent the stack overflow issue, you must the `Thread Stack Size` parameter appropriately. See “Setting the Thread Stack Size” in [Tuning WebLogic JRockit JVM](#) at the following URL for instructions:

<http://edocs.bea.com/wljrockit/docs142/tuning/config.html>

Default Values

If the thread stack size has not been set, the default value depends on the threading system and the platform on which WebLogic JRockit is running:

- **32-bit Default**

On either Windows or Linux IA32 machines, the default thread stack size values for native threads are:

Win32: 64 kB

Linux32: 128 kB

- **64-bit Default**

On either Windows or Linux IA64 machines, the default thread stack size values for native threads are:

Win64: 320 kB

Linux64: 1 MB

Reference CR185287

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.

Reference CR146469

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.

Reference CR145540

http-xml Protocol Not Supported For Service Broker Control

If you use the Service Broker control to call processes, do not use `http-xml` attribute.

Reference CR181948

Invalid Authentication Setting is Available When Editing Controls in WebLogic Server Process Edition

Do not use TPM function as an XQuery selector for a Process or Service Broker control. It is not licenced to use with WebLogic Server Process Edition.

Reference CR182313

!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.

Reference CR145542

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.

Reference CR167736

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
```

Reference CR138486

Specified Scheme, Server Name, or Port Number in Process Control Target is Ignored

The Process control target can be specified in several ways:

- through the `jc:location` annotation on the `jcex` file
- by invoking the `setTargetURI` or `setProperties` methods on the control
- with dynamic properties

This target location is relative to the application. It must not have a scheme, server name, or port number. If a scheme, server name, or port number is specified, it will be ignored.

Reference CR138481

Service Broker Control Query Builder Limitation

If testing query expressions in the Service Broker Query Builder test tab, you may receive an error message when testing query expressions that you previously edited in Source View. Use only generated expressions in the Test panel.

Reference CR185005

Event Generators

Retrieving or Filtering on Timer Event Generator Metadata with Channel Type of XML is Not Supported

Events published by the Timer event generator with channel type of XML do not contain metadata headers, consequently, filtering or retrieving events based on metadata is not supported at this time.

Reference CR138802

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.

Reference CR138762

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

If an event generator 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.

Reference CR125293

Data Transformation

Rebuild of a Schema project Sometimes Disables Typed XML Types

Rebuild of a Schemas project can sometimes disable all the **Typed XML** types from appearing in the WebLogic Workshop panes. For example, importing an XSD file into a Schemas project may disable the **Typed XML** types from appearing in the **Configure XQuery Transformation Method** pane.

If you experience this behavior, close your WebLogic Workshop application and re-open it. All the **Typed XML** types should now be displayed in the WebLogic Workshop panes.

Reference CR173029 and CR185979

XMLBeans APIs Not supported for Local Element and Complex Type Variables Produced by XQuery

If your process definition (JPD) uses XQuery to produce a local element or complex type variable, XMLBeans APIs, such as the `getXXX()` and `setXXX()` methods, will not work in the JPD user code. Local element or complex types are usually used in XQuery code to specify the output for a **For Each** node or Transformation node.

Workaround: Use subsequent XQuery Transformations to extract or map data from such variables.

Reference CR138983

Do Not Delete the System XSD Schema Files

If your WebLogic Workshop application is using any of the system XSD files, do not delete any of the XSD system files from your Schemas project directory because the system XSD Schemas are interdependent. For example, the system `TPM.xsd` and `xmldsig-core-schema.xsd`

Schemas are dependant on each other and removing one of these XSD files from your Schemas project will result in the following design time error:

```
XQuery Document Inititalization failed. Design View unavaliable
```

Caution: Removing a system XSD file from a Schemas project directory may not produce a schema compilation error.

Reference CR125413

Casting is Limited or Unsupported Between Some XML Schema Types and Java Types in Transformations

During run time, the casting in transformations between the following types can be limited or unsupported:

- Between different XML Schema types
- Between Java types and XML Schema types

For example, the casting is limited between the XML Schema type `xs:double` and XML Schema type `xs:integer`. The casting from a source `xs:double` to a target `xs:integer` in a transformation will be successful during run time if the source double value is equal to 8 but will fail if the source double value is equal to 8.5 or even 8.0. The casting between these XML Schema types is unlike the casting done between types in the Java or C language.

The casting between the XML Schema type `xs:date` and the `java.util.Date` is unsupported and will fail during runtime because these two types are not equivalent. 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.

Reference CR182658 and CR138588

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.

Reference CR138758

Test XML Generation for XML Schemas With Choice Groups or the Pattern Schema Components Are Not Supported

The **Test View** of the mapper does not generate the input XML test data correctly for XML Schemas that contain choice groups or pattern schema components. (For 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>

To learn more about pattern schema components see the following URL:

<http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/#rf-pattern>

Workaround For Choice Groups: 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.

Workaround For Pattern Schema Components: In the **Test View** of the Mapper, edit the generated XML Data to be valid data for the pattern.

To learn more about editing XML Data in the **Test View**, see [Testing Maps in the Test View](#).

Reference CR138245

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>

Reference CR145977 and CR154697

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.
- The XQuery `xs:error` function invoked with an argument is not supported.

Reference CR143114, CR143234, CR148091, and CR185099

MFL Transformations in Linux Environment

Multiple-byte delimiters are not supported. For example, in Linux AS 3.0, the system encoding is UTF-8 and delimiters that consist of non-ASCII characters will be encoded as multiple bytes. In such a case, you must change the system encoding when starting the server with the following java command option:

```
-Dfile.encoding=ISO8859_1
```

Reference CR187383

Database and Operating Systems

Continuous Execution of Applications on Solaris 8 and Solaris 9 Operating Systems Using an Oracle Database Can Cause the Java Hot Spot VM (1.4.2_04) to Fail

When some WebLogic Workshop applications are run continuously under heavy loads on the Solaris 8 or Solaris 9 operating systems using an Oracle database, the Java Hot Spot VM (1.4.2_04) can fail and throw the following exception:

```
Unexpected Signal : 11 occurred at PC=0xFEDCD0F4
```

You can workaround this problem by following the steps in the following procedure:

1. Create a file called `.hotspot_compiler` in the server home directory. The server home directory contains the `startWebLogic.sh` file for the current domain.

2. Add the following line to the `.hotspot_compiler` file:

```
exclude oracle/jdbc/driver/OraclePreparedStatement executeBatch
```

Note: This workaround will not be required for the Java Hot Spot VM 1.4.2_06.

Reference CR179157

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.

Reference CR155212

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*> )
```

Reference CR138470

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).

Reference CR169447

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.

Reference CR156614

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.

Reference CR155961

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.

Reference CR155640

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.

Reference CR155769

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 the documentStore...>
```

Workaround: Increase the Sybase `procedure cache` from the default of 3271 to a size that will enable messages of a size typical in your WebLogic Integration application to be exchanged. The `procedure cache percent` should be set to 25%. This number specifies the percent of memory allocated to the procedure cache after allocating the memory Sybase Server needs for locks, user connections, and the server code itself.

Reference CR138765

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.

Reference CR138811

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

Reference CR154285

Dropping WebLogic Integration Database Tables While WebLogic Server is not in Operation Prevents WebLogic Integration from Restarting

After one successful start of WebLogic Server in development mode, a file "cookie" is left in the *domain/wliconfig* directory. The presence of this file suppresses the database create function on subsequent restarts in development mode. As a result, if WebLogic Integration's database tables are removed between WebLogic Server starts, the tables that WebLogic Integration requires will not be created and WebLogic Integration will fail to start.

Workaround: Delete the following cookie files before restarting in development mode:

- *domain/wliconfig/WLI8.1.2_db_tables_checked*
- *domain/wliconfig/WLI8.1.2_db_tables_checked.backup*

Note: The cookie file names do contain 8.1.2, not 8.1.3.

Reference CR176313

Maximum Number of Open Cursors Exceeded for Oracle TPM Repositories Under Load

When trading partners engage in conversations involving large number of messages exchanged and persisted in runtime as well as archive tables, the cursors available in Oracle databases may be insufficient and exceptions similar to the following may be thrown:

```
java.sql.SQLException: ORA-00604: error occurred at recursive SQL
level 1 ORA-01000: maximum open cursors exceeded
```

Workaround: Set the statement cache size for each JDBC connection pool to zero. To configure the statement cache, follow these steps:

1. Launch the WebLogic Server Administration Console.
2. In the left pane, click to expand the Services, JDBC, and Connection Pool nodes to display the list of connection pools in the current domain.
3. Click the connection pool that you want to configure. The right pane displays tabs associated with this instance.
4. Click the Configuration tab, then click the Connections tab.
5. In Statement Cache Size, enter 0 (zero) as the number of statements to cache per connection per connection pool instance.
6. Click Apply to save your changes.

7. Repeat Step 3 through 6 for each connection pool.

For more information on statement cache size, see "Tuning Connection Pools" in [JDBC Connection Pools](http://e-docs.bea.com/wls/docs81/ConsoleHelp/jdbc_connection_pools.html) in the *WebLogic Administration Console Online Help* at the following URL:
http://e-docs.bea.com/wls/docs81/ConsoleHelp/jdbc_connection_pools.html

Reference CR185984

Trading Partner Management Repositories Implemented on Oracle Use LONG and TEXT Data Types

The Trading Partner Management repository implements the `NOTES` field in its database tables as a `LONG` data type and the `WLI_TPM_XML_ELEMENT` as a `TEXT` data type on Oracle databases. The use of these data types may obstruct database management functions on Oracle:

- Utilities such as `import` and `export` require that each row fits in memory, including the full length of any `LONG` value. (This is not the case for `BLOBS` or `CLOBs`.) Since `LONG` values can be up to 2 GB in length, this may effectively prevent `import` and `export` from working.
- The `move` utility cannot be used on tables that contain `LONG` fields.
- There is no way to segregate `LONG` data into their own tablespace.
- Tables with `LONG` columns cannot be replicated using Oracle's replication services.
- Tables with `LONG` columns cannot be partitioned.

Reference CR138953

Character Data, Right Truncation Exception Thrown During Trading Partner Management Messaging on DB2

During Trading Partner Management transaction activity, an asynchronous service queue may throw an exception similar to the following:

```
java.sql.SQLException: [BEA][DB2 JDBC Driver][DB2]Character data,
right truncation occurred; for example, an update or insert value
is a string that is too long for the column, or a datetime value
cannot be assigned to a host variable, because it is too small.
```

Workaround: Increase the size of the DB2 output buffer.

Reference CR133853 and CR134826

Under Some Conditions, Cached Statements are Leaked Without Being Closed, Resulting in Out-Of-Memory Errors

Under some conditions, cached statements are leaked without being closed, which can lead to DBMS resource problems. When using an SQL Server 2000 database, this can ultimately result in out-of-memory errors such as the following:

```
java.sql.SQLException: [BEA][SQLServer JDBC Driver][SQLServer]There is
insufficient system memory to run this query.
```

Reference CR184931

Workaround:

For SQL Server 2000:

A patch is available for this issue. To address the issue, do the following:

1. Contact BEA Customer Support and reference CR184931 to obtain the patch.
2. Apply the patch as instructed.
3. Go to JDBC Connection Pool—>Configuration—>Connections tab, and set the `StatementCacheSize` for the JDBC connection pool to 10.

For Oracle:

A similar issue has been reported. See CR179600 at the following URL:

<http://edocs.bea.com/wls/docs81/notes/issues.html#CR179600>

For DB2

A similar issue has been reported. See CR183190 at the following URL:

<http://edocs.bea.com/wls/docs81/notes/issues.html#CR183190>

Trading Partner Integration

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.

Reference CR155423

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.

Reference CR138262

Trading Partner Integration API Changes

The following APIs have changed:

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

Reference CR155614

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.

Reference CR154862

DOCTYPE is not Preserved in XQuery Transformations

XQuery transformation does not preserve the DOCTYPE element.

Workaround: 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](http://edocs.bea.com/wli/docs81/tptutorial/rosettanet.html) available at the following URL:

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

Reference CR155713

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.

Reference CR155685

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 using one of the following approaches:
 - 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>
```

- Use the WebLogic Server `der2pem` utility. For a description of the syntax for this utility, see “`der2pem`” in [Using the WebLogic Server Java Utilities](#) in the *WebLogic Server Command Reference* at the following URL:

http://edocs.bea.com/wls/docs81/admin_ref/utls.html

- 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.

Reference CR138601

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.

Reference CR156555

Bulk Loader Utility is Not Compatible with XA Database Drivers

Attempting to load data in the TPM repository with the Bulk Loader configured to use an XA database driver fails with the following error: `No suitable driver.`

Workaround: Configure the Bulk Loader to use a non-XA driver, or load the data interactively using the WebLogic Integration Administration Console.

For information about how to configure the Bulk Loader, see “Configuring the Bulk Loader Configuration File” in [Using the Trading Partner Bulk Loader](#) in *Managing WebLogic Integration Solutions* at the following URL:

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

For information about how to load TPM data using the WebLogic Integration Administration Console, see “Importing Management Data” in [Trading Partner Management](#) in *Managing WebLogic Integration Solutions* at the following URL:

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

Reference CR182302

Extraneous Error When Deleting a Certificate

When deleting a certificate from the WebLogic Integration Administration Console, if you encounter the following error message, click **Continue** to dismiss it:

Certificate with name *cert_name* does not exist for partner *partner_name*.

Despite the error, when you click **Continue**, the certificate is deleted.

Workaround: The error message can be disregarded.

Reference CR175845

WebLogic Workshop Online Help

Use of WebLogic Workshop Online Help Off Network

If using WebLogic Workshop Online Help when your computer is off the network, some of the links will fail because they attempt to load help HTML from the Product Documentation site (<http://edocs.bea.com>).

Reference CR185222

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

The [Using the Suppressible Attribute for a Static Subscription](http://edocs.bea.com/workshop/docs81/doc/en/integration/samples/sampleSuppressible.html)

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

Reference CR128683

Screen Shots of File Control Properties are Inaccurate

In the *Guide to Building Business Processes*→Interacting with Resources Using Controls→Setting Control Properties topic at <http://e-docs.bea.com/workshop/docs81/doc/en/integration/wfguide/wfguideControlsProperties.html> both screen shots show the post-read attribute. This attribute is not available and should not be used.

Reference CR203877

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.

Reference CR138525

Worklist Substitution Rule Not Implemented for `assignTaskToUser` Method

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

File Event Generator May Fail to Create Temporary Files Under a Very High Load

If your File event generator is polling a remote (FTP) directory and is concurrently processing a very high load of remote files, it may fail to create more than one local temporary file per millisecond.

Reference CR139010

Problems Fixed in This Release

The following table lists selected problems fixed in BEA WebLogic Integration 8.1 Service Pack 3, including a CR (Change Request) number for each problem.

To learn more about the known limitations in the WebLogic Integration 8.1 Service Pack 3 release, see [“Known Limitations” on page 3-1](#).

Table 1. Problems Fixed in BEA WebLogic Integration 8.1 Service Pack 3

Change Request Number	Description
CR125311	<p>Problem: WebLogic Workshop was building the files in directories named CVS.</p> <p>The generated .work file for a WebLogic Workshop application now excludes the files in the directories named CVS from being built, in addition to the cvs, sccs, and rcs directories that were already excluded.</p>
CR126476	<p>Problem: For the Solaris operating system, the documentation did not state the need to start an X Windows server in order to view interactive process graphs using the Adobe SVG Server from the WebLogic Integration Administration console.</p> <p>The Process Instance Monitoring section of the WebLogic Integration Administration console help has been updated with the requirements for the Solaris operation system. For more information, see “Requirements for the Interactive Graph” in Process Instance Monitoring section.</p>

Change Request Number	Description
CR126964	<p>Problem: MFL files that use the string: Document in field names will fail during schema compilation.</p> <p>This limitation has been removed.</p>
CR127159 and CR127162	<p>Problem: When running the ApplicationViewClient example, the ApplicationView constructor is adding the prefix: AI_GLOBAL to the JNDI name lookup causing the <code>javax.naming.NameNotFoundException</code> to be thrown.</p> <p>The example has been fixed.</p>
CR127270	<p>Problem: Enhancement request to allow customized code pages for the conversion between ASCII and EBCDIC in XQuery transformations run in WebLogic Workshop and the Format Builder.</p> <p>This enhancement was added.</p>
CR127843	<p>Problem: Performance enhancement requested for editing very large JPD files (over 30K) in WebLogic Workshop.</p> <p>The performance for editing very large JPD files in WebLogic Workshop has been improved.</p>
CR128484	<p>Problem: In the WebLogic Integration RDBMS Adapter, the password of the RDBMS database should be encrypted instead of being displayed in clear text.</p> <p>The password is now being encrypted.</p>
CR128699	<p>Problem: Transformations are converting the values of Java primitive type long and Long objects to a XML Schema <code>xs:long</code> type as 32-bit signed values instead of 64-bit signed values.</p> <p>Values of Java primitive type long and Long objects are now being converted to XML Schema <code>xs:long</code> type as 64-bit signed values.</p>
CR128738	<p>Problem: The worklist method <code>setSortByAsignee()</code> is throwing exceptions when passed to the method: <code>com.bea.wli.worklist.beans.session.RemoteWorklistManager.getTaskInfos(TaskSelector).</code></p> <p>These exceptions are no longer being thrown.</p>

Change Request Number	Description
CR129031	<p>Problem: Transformations can only be run in the Test View with server port number set to 7001. When you attempt to run a query with another port number, the <code>Exception occurred executing XQuery: Connection refused</code> error is displayed and the query does not run.</p> <p>Transformations will now run in the Test View when any legal server port number is specified.</p>
CR130548	<p>Problem: Attempting to assign a task to user using the assignToUser algorithm when that user already had an entry in the substitute routing table will fail and an exception will be thrown.</p> <p>This problem has been fixed in this release.</p>
CR131686	<p>Problem: Enhancement request to be able to specify a foreign JMS destination when creating a JMS event generator in the WebLogic Integration Administration console.</p> <p>This functionality has been added to the WebLogic Integration Administration console. For more information see "Creating and Deploying Event Generators" in Event Generators.</p>
CR131808	<p>Problem: Defining a set of namespace URI substitutions (using the <code>setLoadSubstituteNamespaces</code> method of the <code>XmlOptions</code> class) and then invoking a Transformation fails and a <code>com.bea.xml.XmlException</code> is thrown.</p> <p>This problem has been fixed in this release.</p>
CR131819	<p>Problem: In a business process, if switch node has a method that returns a <code>String</code> for evaluation and the method is declared with <code>throws Exception</code> clause, the build of the WebLogic Workshop application will fail with <code>java.lang.ClassNotFoundException</code>.</p> <p>This problem has been fixed in this release.</p>
CR132422	<p>Problem: In a Worklist application sometimes when a task completes, the Workflow process fails and the <code>java.lang.IndexOutOfBoundsException</code> is thrown.</p> <p>This problem has been fixed in this release.</p>
CR132597	<p>Problem: A specific WebLogic Workshop application works when invoked by a Message Driver Bean but when this same application is invoked from a business process, the application fails and the <code>java.lang.ClassCastException</code> is thrown.</p> <p>This problem has been fixed in this release.</p>

Change Request Number	Description
CR132838	<p>Problem: During runtime of a business process, exceptions caught using an exception handler should not appear in the WebLogic Server console window.</p> <p>Exceptions caught using an exception handler are no longer displayed in the WebLogic Server console window.</p>
CR132913	<p>Problem: When the XMLBeans <code>set</code> method for a <code>xsd:extension</code> element is called, a <code>java.lang.IllegalArgumentException</code> is thrown.</p> <p>This problem has been fixed in this release.</p>
CR132923 and CR184264	<p>Problem: For a multi-cluster domain, when you select the Worklist Administration and System Configuration→Archive options in the WebLogic Workshop Administration console the <code>com.bea.wli.management.archiving.WLIArchiverException</code> exception is thrown.</p> <p>This problem has been fixed and the exception is no longer thrown</p>
CR133352	<p>Problem: When MQ Server is bounced, the MQ event generator should auto connect.</p> <p>This problem has been fixed in this release.</p>
CR133444	<p>Problem: While using the Worklist API to get task information for groups, a security exception is thrown.</p> <p>The correct group information is now returned and the security exception is no longer thrown.</p>
CR133578	<p>Problem: Retrieving or filtering on Timer Event Generator metadata in a soap header fails with a <code>Invalid Request for subscription error message</code> and a <code>com.bea.wlw.runtime.core.request.RequestValidationException</code> is thrown.</p> <p>This problem has been fixed and the exception is no longer thrown.</p>
CR134084	<p>Problem: Some JPDs created in 8.1 GA failed to compile in 8.1 SP2.</p> <p>This incompatibility has been removed and those particular JPDs will compile on this release.</p>
CR134592	<p>Problem: XML processing performance enhancement requested for the adapters.</p> <p>The XML Toolkit used in Application Integration has been updated for better performance by deferring parsing.</p>

Change Request Number	Description
CR135228	<p>Problem: A specific WebLogic Workshop application has a JMS event generator configured to deliver a message to a channel, and has a JPD which is listening on that channel to receive an event. However, when the <code>Anonymous Admin Lookup Enabled</code> attribute is set to <code>false</code> (as recommended in a BEA security advisory), the JMS Event Generator fails and the <code>com.bea.wli.mbconnector.MBConnMDBBase\$MBConnectorException</code> is thrown.</p> <p>For more information on this BEA security advisory, see the following URL: http://dev2dev.bea.com/resourcelibrary/advisoriesnotifications/BEA03_43.00.jsp</p> <p>The JMS Event Generator no longer fails when the <code>Anonymous Admin Lookup Enabled</code> attribute is set to <code>false</code>.</p>
CR135306	<p>Problem: Request to support an unlimited wait time for a Get Message of the MQ Control. This enhancement has been added to the MQ Control for this release.</p>
CR135486	<p>Problem: WebLogic Workshop should issue a warning or error when a business process attempts to access a private variable in the JPD file. Variables referenced by a business process (JPD) must be at least package level accessible—private variables are not accessible by a business process.</p> <p>An error is now reported.</p>
CR135576	<p>Problem: The <code>java.lang.NullPointerException</code> can sometimes be thrown when managed server are located on different machines and the file systems are not shared. This problem has been fixed and the exception is no longer thrown.</p>
CR135660	<p>Problem: Request to support added for incorporating the logical order and wait for all messages flags while getting group message in the MQ Control. This enhancement has been added to the MQ Control for this release.</p>
CR135842	<p>Problem: The WebLogic Integration Administration console incorrectly reports that a process instance is running even though the process failed at startup. This problem has been fixed for this release.</p>
CR136026	<p>Problem: When two Application Views are created which have the same name but are stored in different directories, publishing the second Application View removes the first schema definition.</p> <p>This problem has been fixed and two Application Views can now be created and published which have the same name but are stored in different directories.</p>

Change Request Number	Description
CR136317	<p>Problem: The ability to create transformations with recursive elements of XML Schemas is not supported.</p> <p>The ability to create transformations between recursive elements is now supported in this release. For more information see Using Recursive Schemas in Transformations.</p>
CR136435	<p>Problem: The <code>bea-xf:trim</code> function throws the <code>StringIndexOutOfBoundsException</code> when an empty string: <code>" "</code> or a string with blanks: <code>" "</code> is passed in as an argument.</p> <p>The <code>bea-xf:trim</code>, <code>bea-xf:trim-left</code>, and <code>bea-xf:trim-right</code> functions when invoked with a empty string or a string with blanks now returns an empty string.</p>
CR168591	<p>Problem: In WebLogic Workshop, when trying to edit a JWS file that contains XQuery code with an empty element (for example: <code><tree/></code>) followed by the character: <code>}</code>, the edit will fail and the following error will be reported:</p> <p>Failed to parse the XQuery after user edits. The source to target links in the map cannot be restored.</p> <p>This XQuery character combination can now be edited without error.</p>
CR168600	<p>Problem: When using a Sybase 12.5 database, the driver is sending the database name: <code>Adaptive Server Enterprise</code> which causes the WebLogic Server to fail to boot and report the following error:</p> <p>unknown database type found. database name = Adaptive Server Enterprise, database driver name = jConnect (TM) for JDBC (TM)</p> <p>This problem has been fixed for this release.</p>
CR172132	<p>Problem: The WebLogic Integration Administration console and the Test Browser incorrectly shows an instance of the process to be running even though the process has timed out.</p> <p>This problem has been fixed for this release.</p>
CR172910	<p>Problem: In a WebLogic Workshop application in which the calendar and timer event generator is configured with an future effective time, and the specified time is not available due to the calendar settings, the timer event is being triggered even though it should not.</p> <p>If the specified time is not available due to the calendar settings, the timer event is no longer being triggered.</p>

Change Request Number	Description
CR173061	<p>Problem: The JPDProxy generation fails with a Compilation of jpd public contract interface failed error if the JPD uses a user-defined Java class as a method argument or a return value in a Client Request.</p> <p>This problem has been fixed for this release.</p>
CR173135	<p>Problem: Enhance documentation to explain the disadvantages of versioning with long-running business processes.</p> <p>The documentation has been updated to reflect this issue. For more information see Using Versioning with Long-Running Business Processes available at the following URL: http://edocs.bea.com/workshop/docs81/doc/en/integration/wfguide/wfguideVersion.html</p>
CR174707	<p>When creating an MQEventGen.xml file, if you are using a Bindings connection the port-number attribute should be optional. If this attribute is not specified a NumberFormatException is thrown.</p> <p>This problem has been fixed for this release.</p>
CR175520	<p>Problem: Request for XML Schema definition for the @jpd:process Annotation, so JPDs can be generated.</p> <p>The XSD file that contains the XML Schema definition for the @jpd:process Annotation, was provided.</p>
CR175579	<p>Problem: Stateful business processes that <i>Aborts</i> in the first transaction cannot be terminated (so that they can later be purged) using the WebLogic Integration Administration console. The following error is reported:</p> <p>Failed to terminate process /case490764Web/processes/process1tx.jpd with id</p> <p>This problem has been fixed for this release.</p>
CR175699	<p>Problem: In the WebLogic Workshop Administration console, while configuring a Worklist Custom Query, a java.io.StreamCorruptedException is thrown.</p> <p>This problem has been fixed and the exception is no longer thrown.</p>
CR177207	<p>Problem: Request to support to set Application Identity related information in MQSI header on a PUT service of a MQ Control.</p> <p>This enhancement has been added to the MQ Control for this release.</p>

Change Request Number	Description
CR178172	<p>Problem: Requesting an enhancement to be able to set more than one instance of <code>propertyName</code> and <code>propertyValue</code> of <code>taskSelector</code> in Worklist application.</p> <p>This enhancement has been made for this release.</p>
CR179621	<p>Problem: When configuring a cluster in a WebLogic Integration domain, the WebLogic Server documentation specifies not to configure listen ports when you want failover in a cluster but when you try to specify a host name without a port number using the WebLogic Administration Console, a <code>java.lang.RuntimeException</code> is thrown.</p> <p>This problem has been fixed and the exception is no longer thrown.</p>
CR180242	<p>Problem: A WebLogic Integration application on Red Hat Linux 2.1 with WebLogic Integration 8.1 SP2, using SAP Adapter 8.1 running on the JRocket VM reports an out of memory error.</p> <p>A JRocket patch was provided to fix the memory leak. The version of JRocket that ships with WebLogic Integration 8.1 SP3 does not contain this memory leak.</p>
CR180409	<p>Problem: Request to support EBCDIC data in MQ Control.</p> <p>Support for EBCDIC data in the MQ Control has been added.</p>
CR180792	<p>Problem: When a business process invokes a specific transformation (associated with this Change Request) to convert Non-XML (MFL) data to XML data, the transformation goes into a infinite loop and business process never completes.</p> <p>This problem has been fixed, and this transformation no longer goes into an infinite loop and the calling business process completes.</p>
CR180994	<p>Problem: Request to expose the time out period for unused connections in the connection pool as a control property in the MQ Control.</p> <p>This enhancement has been added to the MQ Control for this release.</p>
CR181177	<p>Problem: Request to support to <code>PutApplicationName</code> and <code>FeedBack</code> fields of MQSI header for the MQ Control.</p> <p>This enhancement has been added to the MQ Control for this release.</p>
CR181817	<p>Problem: Running a business process that creates a new instance of an <code>XmlObject</code> (<code>XmlObject.Factory.newInstance()</code>) in a perform node throws a <code>NullPointerException</code>.</p> <p>This problem has been fixed and this exception is no longer thrown.</p>

Change Request Number	Description
CR181980	<p>Problem: A WebLogic Integration application using a File Control to connect to an FTP server fails with a FTP Error 426 when run on a Solaris machine configured with two NIC cards.</p> <p>This problem has been fixed in this release.</p>
CR182274	<p>Problem: Request to support Java interfaces and abstract classes in business process methods.</p> <p>Using Java interfaces and abstract classes in business process methods is supported in WebLogic Integration 8.1 SP2 but tuning of the <code>@jws:protocol http-soap</code> attribute may be required to avoid the following compiler error:</p> <pre>ERROR: MyProcess.jpd:10: Interfaces such as com.mycompany.MyInterface cannot be instantiated and unmarshalled from XML. ERROR: SUGGESTION: Use a concrete class that implements com.mycompany.MyInterface or use a type that is supported.</pre> <p>To change the Web Service type constraints that are applied to a JPD by default and avoid this compiler error, set the <code>@jws:protocol http-soap</code> attribute to false. (By default all JPDs are also Web services.) For more information, see the following URL:</p> <p>http://edocs.bea.com/workshop/docs81/doc/en/workshop/javadoc-tag/jws/protocol.html</p> <p>You can configure this attribute at the class/process-level as well as the individual method-level from the JPD Source View's Property Editor. (There is no need to edit the <code>java-call</code> attribute.)</p>
CR18248	<p>Problem: Format Builder is not correctly parsing source Non-XML data that has a delimiter with a double quote character. For example, the following data:</p> <pre>1,22,333,"John Roe, Jr., roll "R","Jane Roe, wife",4444</pre> <p>With the delimiter: <code>"</code>, should be parsed as shown in the following XML section:</p> <pre><field1>1</field1> <field2>22</field2> <field3>333</field3> <field4>John Roe, Jr., roll "R"</field4> <field5>Jane Roe, wife</field5> <field6>4444</field6></pre> <p>This problem has been fixed in this release.</p>

Change Request Number	Description
CR182486	<p>Problem: The <code>java.lang.ClassCastException: javax.activation.DataHandler</code> Exception is thrown when a Soap attachment is used as input to a business process.</p> <p>This problem has been fixed in this release.</p>
CR182904	<p>Problem: When trying to start an WebLogic Integration server on a remote machine using the node manager, the server fails to start and the following exception is reported:</p> <pre>weblogic.management.AbortDeploymentException: weblogic.t3.srvr.FatalStartupException: Can't start server due to startup class failure WLI Startup Class - with nested exception: [java.lang.NullPointerException]</pre> <p>This problem has been fixed and this exception is no longer thrown.</p>
CR182999	<p>Problem: In WebLogic Workshop, when a specific transformation (associated with this Change Request) is invoked to transform XML data to a Java class, the resulting data in the Java class is incorrect.</p> <p>This problem has been fixed in this release.</p>
CR183452	<p>Problem: FTP control running on Unix through a firewall does not conform to protocol.</p> <p>This has been fixed and the FTP control will generally honor FTP protocol in mixed platform environments.</p>
CR183798	<p>Problem: In a UNIX clustered environment, a WebLogic Integration application with a huge set of XML Schemas fails to loads when you bring up the Test Browser and the following error message is displayed on the WebLogic Server console:</p> <pre>Failed to read imported schema document</pre> <p>This problem has been fixed in this release.</p>
CR184981	<p>Problem: Sample code shown in the Worklist documentation should close the <code>InitialContext</code>.</p> <p>The sample code in the worklist documentation has been updated to show the call to the <code>close</code> method of the <code>InitialContext</code>.</p>