



# **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 4 release. This section includes the following topics:

- [What Is New in BEA WebLogic Integration 8.1 Service Pack 4](#)
- [Platform Support and System Requirements](#)
- [Tutorials](#)
- [WebLogic Integration 8.1 Archive Documentation](#)
- [WebLogic Integration 8.1 Service Pack 2 Archive Documentation](#)
- [WebLogic Integration 8.1 Service Pack 3 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 4

The WebLogic Integration 8.1 Service Pack 4 release adds several performance and feature enhancements, including the following:

- **Synchronous to Asynchronous Business Processes**—You can now enable synchronous clients to interact with business processes that have asynchronous interactions with resources. For example, a synchronous WebLogic Workshop client, such as a JSP or Portal page that uses a Java control, may need to invoke a business process and then block. While the client is blocking, the business process may perform asynchronous activities, such as enqueueing a JMS message and waiting for a JMS receive, and then return the response to the client, after which the client unblocks. To learn more, see “Synchronous Clients for Asynchronous Business Processes” in *Building Synchronous and Asynchronous Business Processes* in the *Guide to Building Business Processes*, which is available at the following URL:

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

- **New Controls:**

- **Dynamic Transformation**—Provides a business process with the ability to dynamically select and invoke a query during run time. Specifically, it allows you to select a particular XQuery, XSLT, or MFL file at run time. To learn more see “Dynamic Transformation Control” in *Using Integration Controls*, which is located at the following URL:

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

- **XML MetaData Cache**—This control allows you to retrieve XML documents from the XML Metadata cache. To learn more, see “XML MetaData Cache Control” in *Using Integration Controls*, which is available at the following URL:

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

- **File Control Enhancements**—A new option allows you to set a delimiter to specify the size of a record. This option is available in the **Insert Control – File** dialog box by selecting the **Read file content including delimiter string** check box. To learn more, see “Creating a New File Control” in *Using Integration Controls*, which is located at the following URL:

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

- **RDBMS Event Generator**—This new event generator uses triggers to detect changes to a database table for added, deleted, or updated rows and then publishes the results to Message Broker channels. You can also use the RDBMS Event Generator to run custom queries on a database table and publish the results to Message Broker channels. For more information, see the *RDBMS Event Generator User Guide*, which is available at the following URL:

<http://e-docs.bea.com/wli/docs81/rdbmseg/intro.html>

- **Worklist Performance Improvements:**

- Improved performance for Worklist operations.
- Optimization of Task creation and assignment.
- Added searching and sorting capabilities, including a new interface for querying Worklist tasks. This interface allows client applications, especially user interface (UI) applications, to retrieve only a subset of records. This feature improves performance and scalability.

To learn more, see *Using the Worklist*, “Worklist Administration” in *Managing WebLogic Integration Solutions*, and the `WorklistScrollableResultManager` Interface, which are located at the following respective URLs:

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

<http://e-docs.bea.com/wli/docs81/manage/worklist.html>

<http://edocs.bea.com/wli/docs81/javadoc/com/bea/wli/worklist/api/WorklistScrollableResultManager.html>

- **Data Transformation Improvements**—Message Format Language (MFL) enhancements improve performance significantly when transforming non-XML data.
- **Web Service Features in Business Processes**—This document covers some of the unique WebLogic Integration Web service features. To learn more, see “Web Service Features in Business Processes” in the *Annotations Reference*, which is located at the following URL:

<http://e-docs.bea.com/workshop/docs81/doc/en/integration/javadoc-tag/jpd/web-service-features.html>

- **New Deployment Documentation**—Access to deployment information is more readily available from the BEA WebLogic Integration 8.1 Service Pack 4 home page. See the Deployment section of this page, which is available at the following URL:

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

- **New Solution Samples**—These samples provide working code plus build and configuration scripts that demonstrate best practices in implementing various application

scenarios. The samples provide generalized solution architectures that are tuned for performance and scalability. To learn more see “Solution Samples,” which is located at the following URL:

[http://e-docs.bea.com/wli/docs81/sol\\_samples/index.html](http://e-docs.bea.com/wli/docs81/sol_samples/index.html)

For more information about what is new in the WebLogic Platform 8.1 Service Pack 4 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 4 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 4 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](http://edocs.bea.com/wli/docs81/tpintro/ebXMLSec_appx.html)

- Example: RosettaNet Security Configuration

[http://edocs.bea.com/wli/docs81/tpintro/RNSec\\_appx.html](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](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](http://edocs.bea.com/wli/docs81/zip/wli_docs81sp2.zip)

## WebLogic Integration 8.1 Service Pack 3 Archive Documentation

For an archive version of the WebLogic Integration 8.1 Service Pack 3 documentation (including the WebLogic Integration 8.1 Service Pack 3 version of the release notes), see the following URL:

[http://edocs.bea.com/wli/docs81/zip/wli\\_docs81sp3.zip](http://edocs.bea.com/wli/docs81/zip/wli_docs81sp3.zip)

## 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](http://commerce.bea.com/products/weblogicadapters/wl_adapter_home.jsp)



# Upgrading to WebLogic Integration 8.1 SP4

This section provides information on upgrading to BEA WebLogic Integration 8.1 Service Pack 4 (SP4). The following upgrades paths are available:

- **Upgrading WebLogic Integration 8.1 SP2 to SP4**
- **Upgrading WebLogic Integration 8.1 SP3 to SP4**

**Note:** If you are upgrading from the initial release of WebLogic Integration 8.1 to WebLogic Integration 8.1 SP 4, you must first upgrade to WebLogic Integration 8.1 SP 2.

To learn how to perform this upgrade, see “Upgrading to WebLogic Integration 8.1 SP2” in the *WebLogic Integration Release Notes, Version 8.1, Service Pack 3*. When performing this upgrade, please ignore the section titled “Upgrading Databases from 8.1 to 8.1 SP2.” It is no longer applicable.

This document is available in PDF in a ZIP file. Go to the “Download PDF Documentation for Previous Releases of WebLogic Integration 8.1” page, at <http://e-docs.bea.com/wli/docs81/interm/prevreleases.html>, then click “All WebLogic Integration 8.1 SP3 Documents.”

## Upgrading WebLogic Integration 8.1 SP2 or SP3 to SP4

This section includes the following topics:

- [Ways to Upgrade WebLogic Integration 8.1 SP2 or SP3 to SP4](#)
- [Upgrading Domains to SP4](#)
- [Manually Upgrading SP2 or SP3 Databases to SP4](#)

- [Creating the Required WebLogic Integration Queues For a Clustered Domain when Upgrading from SP2](#)
- [Upgrading Pointbase](#)

**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 or SP3 to SP4

WebLogic Integration 8.1 SP4 is installed as part of WebLogic Platform 8.1 SP4. You can upgrade from WebLogic Integration 8.1 SP2 or SP3 to WebLogic Integration 8.1 SP4 using one of the following ways:

- A new installation of WebLogic Integration 8.1 SP4 that is separate from the existing WebLogic Integration 8.1 SP2 or SP3 installation. When installing WebLogic Integration 8.1 SP4 in this manner, you should install it in a separate home directory from the existing WebLogic Integration 8.1 SP2 or SP3 installation. For this type of installation, you can use either the net installer or package installer of WebLogic Platform 8.1 SP4 for your operating system.

For information about upgrading WebLogic Platform 8.1 SP4 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 SP4 that is installed over the existing WebLogic Integration 8.1 SP2 or SP3 installation. For this type of installation, you should use Smart Update.

For information about upgrading WebLogic Platform 8.1 SP4 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 to SP4

Domains created for WebLogic Integration 8.1 SP2 or SP3 must be upgraded to run with WebLogic Integration 8.1 SP4.

To help you upgrade your WebLogic Integration domains, upgrade scripts are included in WebLogic Integration 8.1 SP4. These scripts facilitate upgrading domains, including those domains created with the BEA WebLogic 8.1 SP4 Configuration Wizard.

This section includes information on the following topics:

- [Prerequisites for Upgrading to SP4](#)
- [Upgrading an Existing SP2 or SP3 Domain to SP4](#)

## Prerequisites for Upgrading to SP4

This section contains information you should be aware of before upgrading WebLogic Integration 8.1 SP2 or SP3 to WebLogic Integration 8.1 SP4. 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>

## 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 SP2 or SP3 Domain to SP4

This section provides the steps for upgrading either an existing single node or clustered domain generated for WebLogic Integration 8.1 SP2 or SP3 to WebLogic Integration 8.1 SP4. Another way to update to a WebLogic Integration 8.1 SP4 domain is to create a new SP4 domain and move

your existing SP2 or SP3 application to the new domain. To learn more see “Creating a New Domain and Deploying Applications Into It” in *Roadmap for Upgrading WebLogic Platform* available at the following URL:

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

To upgrade a domain generated for WebLogic Integration 8.1 SP2 or SP3 to WebLogic Integration 8.1 SP4, complete the following steps:

1. Set the correct environment and paths:

- a. Go to `BEA_HOME_814/weblogic81/common/bin` directory.

In the preceding line, `BEA_HOME_814` represents the directory where WebLogic Platform 8.1 SP4 is installed.

- b. Execute the environment script by entering the following:

**UNIX using sh or ksh:** `./commEnv.sh`

**Windows:** `commEnv.cmd`

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

`BEA_HOME_814/weblogic81/integration/upgrade`

In the preceding line, `BEA_HOME_814` represents the directory where WebLogic Platform 8.1 SP4 is installed.

5. Using the `options.properties.sample` file as a template, create a file named `options.properties`, and specify the following values in it:
  - `current.version`—The version of WebLogic Platform from which you want to migrate.
  - `domain.path`—Path of the domain to upgrade.
  - `beahome.path`—Path to the WebLogic Integration 8.1 SP2 or SP3 installation.
  - `beahome.4.path`—Path to the WebLogic Integration 8.1 SP4 installation.

**Note:** Use “/” as a file separator.

**Note:** If you have upgraded to SP4 using Smart Update, `beahome.path` and `beahome4.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 SP4, both `beahome.path` and `beahome4.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 SP4 is installed on `C:/beaSP4`, and the WebLogic Integration 8.1 SP4 domain to upgrade is located at `C:/beaSP2/user_projects/domains/integration`, you would set these properties as follows:

- `current.version=sp2`
- `domain.path=C:/beaSP2/user_projects/domains/integration`
- `beahome.path=C:/beaSP2`
- `beahome.4.path=C:/beaSP4`

**UNIX example:**

- `current.version=sp2`
- `domain.path=/home/beaSP2/user_projects/domains/integration`
- `beahome.path=/home/beaSP2`
- `beahome.4.path=/home/beaSP4`

**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`.

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

`BEA_HOME_814/weblogic81/integration/upgrade`

In the preceding line, `BEA_HOME_814` represents the directory where WebLogic Platform 8.1 SP4 is installed.

7. Determine if you need or want to manually upgrade the database or use the upgrade script.

Upgrading the database structure is implicit in the upgrade process. If you are using Pointbase or 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.

To learn more about upgrading the database manually, see [“Upgrading Pointbase” on page 2-9](#) or [“Manually Upgrading SP2 or SP3 Databases to SP4” on page 2-6](#).

**Note:** The databases must be upgraded before you start the WebLogic Integration 8.1 SP4 server in the upgrade domain.

8. Run the following ant target to upgrade the JDK version reference:

```
ant -f domain_upgrade.xml update_paths
```

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

```
ant -f domain_upgrade.xml upgrade -Doptions.properties=[<your options file>] -Dcurrent.version=[sp2|sp3] -Dsingle.node=[true|false]
-Dddb.type=[oracle|sybase|mssql|db2|pointbase] -Dddb.user=[<user_name>]
-Dddb.password=[<password>] -Dddb.server=[<server>:<port>]
-Dddb.name=[<database_name>]
```

The `your_options_file` is usually called the `options.properties`. The `user_name` and `password` are the valid username and password for the database. For help on the ant syntax, type `ant` on the command line.

**Note:** If you are upgrading your database using the script, the data source must be connected to an active database.

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

10. If upgrading a clustered domain from SP2, you must create the WebLogic Integration queues in SP4. See [“Creating the Required WebLogic Integration Queues For a Clustered Domain when Upgrading from SP2.”](#)

11. If you are upgrading a clustered domain, you must delete the staging directories for the administration and managed servers in the upgraded domain.

This ensures that all the servers get the upgraded WebLogic Integration applications from the WebLogic Integration 8.1 SP4 installation rather than the local staging directories, which may be outdated.

For example, if your domain contains an administration 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`.

**Note:** 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>

## Manually Upgrading SP2 or SP3 Databases to SP4

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

4. 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 SP4 have changed from WebLogic Integration 8.1 SP2 and SP3. 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

To manually upgrade databases from WebLogic Integration 8.1 SP2 or SP3 to WebLogic Integration 8.1 SP4, complete the following steps:

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

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

**On Windows:**

*BEA\_HOME\_814\weblogic81\integration\dbscripts\db\_directory*

**On UNIX:**

*BEA\_HOME\_814/weblogic81/integration/dbscripts/db\_directory*

In the previous paragraphs, *BEA\_HOME \_814* represents the directory in which you installed WebLogic Platform 8.1 SP4, and *db\_directory* represents oracle, pointbase, sybase, db2, or mssql.

2. Run one of the following database upgrade scripts, depending on whether you are upgrading from SP2 or SP3:
  - *upgrade\_runtime\_sp2\_sp4.sql*
  - *upgrade\_runtime\_sp3\_sp4.sql*
3. Start the WebLogic Integration 8.1 SP4 server from the upgraded domain.

## Creating the Required WebLogic Integration Queues For a Clustered Domain when Upgrading from SP2

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 `v` and `RedeliveryDelayOverride="5000"`.

## 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 or SP3 to WebLogic Integration 8.1 SP4, 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
```

In the preceding line, `WL_HOME` is the `weblogic81` directory of the WebLogic Platform 8.1 SP4.

**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
```

## Upgrading to WebLogic Integration 8.1 SP4

# Known Limitations

This section describes known limitations in the BEA WebLogic Integration 8.1 Service Pack 4 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](#)
- [Upgrading WebLogic 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.

## Security Configuration Dependency on web.xml

Do not use the WebLogic Integration Administration Console to access your business process to secure SOAP-HTTP access to your business process if you have already secured your business process using the `security-constraint` element in the `web.xml` deployment descriptor and the `@common:security` annotation. You will receive a security violation at run time. For more information, see the following:

- “security constraint” in *Securing Web Applications* at [http://e-docs.bea.com/wls/docs81/security/thin\\_client.html](http://e-docs.bea.com/wls/docs81/security/thin_client.html)
- “@common:security” annotation in the *Annotations Reference* at <http://e-docs.bea.com/workshop/docs81/doc/en/workshop/javadoc-tag/common/security.html>
- “Process Configuration” in *Managing WebLogic Integration Solutions* at <http://edocs/wli/docs81/manage/processconfig.html>

Reference CR180096

## 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 Server EJB Warning

When starting the WebLogic Integration server, you may receive a warning similar to the following:

```
<Nov 20, 2004 11:15:18 PM PST> <Warning> <EJB> <BEA-011070> <In the
<weblogic-rdbms-bean>, for <ejb-name> 'DataBean', some <field-group>(s) are
defined but are not used in any <weblogic-query>,
<weblogic-relationship-role> or <relationship-caching> <caching-element>s.
The <group-name>(s) of the unreferenced <field-group>(s) are: 'default'>
```

You can ignore these messages.

Reference CR206174

## 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>
```

## 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=524288
```

**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://e-docs.bea.com/platform/suppconfigs/index.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

## Internet Explorer Cannot Access the WebLogic Integration Administration Console on Microsoft Windows Server 2003

On Microsoft Windows Server 2003, Internet Explorer may not be able to access the WebLogic Integration Administration Console.

**Workaround:** In Internet Explorer, go to **Tools**→**Internet Options**→**Security Tab**→**Custom Level**. In the Security Settings dialog box, go to **Miscellaneous**→**Allow META REFRESH**, and then select **Enable**.

Reference CR204142

## Deleting Tasks in Worklist Administration Module May Display Empty Pages

If a client deletes all tasks from more than one page, the Worklist Administration Module may display empty pages.

**Workaround:** Click **View All** to refresh the task list.

Reference CR204463

## Worklist Administration Module May Throw Exception Traces

The Worklist Administration Module may throw exception traces instead of clean error messages after simultaneous Worklist operations on the console; the exceptions are valid.

Reference CR203350

# Application Integration

## 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

## **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 be 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 be 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 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 CR145540

## Use of @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 a 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

## 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 while the remaining messages are processed; the ignored message is processed last.

### Workarounds:

1. If your application includes blocking calls, such as to `JMSReceive()`, 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.)



2. 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

## Non-Conforming WSDL for Business Processes Using SOAP with Attachments

When a WSDL is generated from a business process that uses SOAP with attachments, the resultant WSDL does not conform to the WSDL 1.1 specification. More specifically, in the generated WSDL, the part attribute of `<mime:content>` is the name of an element inside a `complexType`. However, the WSDL 1.1 specification requires that the part attribute of `<mime:content>` should specify the name of the message part. Third-party tools that depend on this specific feature may not be usable.

Reference CR200262

## 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>.

Reference CR175498

## ProcessRuntimeMBean Failing to Retrieve Stateless Business Process Instance Information in Development Mode

The `ProcessRuntimeMBean` is not normally used for stateless business processes. It is usually used for stateful processes. In development mode, *not* production mode, on some processes, it may return the wrong information.

Reference CR206655

## Unhandled Exceptions

If you do not handle exceptions in a business process, the original exception may be wrapped within multiple layers. If you need to obtain the original exception, you can call `getCause()` on the unhandled process exception. The following pattern may help you get to the original exception in the parent process:

```
public static Throwable unwrapException(Throwable t) {  
    while ((t instanceof UnhandledProcessException) ||
```

```

        (t instanceof ProcessControlException) ||
        (t instanceof JpdProxyException)) &&
        t.getCause() != null) {
            t = t.getCause();
        } return t;
    }
}

```

Reference CR205165

## Uncommitted Local Transaction when Connection Returned to Connection Pool

The local transaction is left open. To close it, in the JDBCConnectionPoolMBean, set the property `RollbackLocalTxUponConnClose="true"`.

Reference CR200072

## Select Variable Button Disabled in Transformation Dialog Box

When creating a business process variable, you must use a fully-qualified type name.

Reference CR193454

## Performance Issue for Large Business Processes

In large business processes, editing in Source View may cause CPU usage to increase to 100% and slow down entry of information.

**Workaround:** Modify the `workshop.cfg` file to increase the memory limit to 512M.

Reference CR197552

# Cluster Configurations

## 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

## 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

## 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**

It is not possible to call a JWS from a business process (JPD) using the Process control and XML bean arguments. 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

## **Making Synchronous Calls Using a Process Control Across Application Boundaries with Complex Java Types**

When making a synchronous call using a Process control across application boundaries that contain complex Java types, you must add the Java classes to the system classpath.

Reference CR198290

## **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 `jcx` 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

## **Service Broker Control Cannot Be Used to Access a Queue Through a Foreign JMS Connection Factory**

The Service Broker control cannot be used to access a queue through a foreign JMS connection factory.

Reference CR199252

## 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

### Using the RDBMS Event Generator in a Cluster

To use the RDBMS Event Generator in a cluster, the managed nodes must be created with specific IP addresses and port numbers. By default, the IP addresses of the managed nodes are null. If the default settings are used, events cannot be created in RDBMS Event Generator. IP Addresses and Port Numbers of the Managed Nodes must be provided.

Additionally, the Administration server sends messages to the distributed queue, Because the distributed queue is available only on the managed nodes, the JNDI-scoped security for `wli.internal.egrdbms.queue` must have lookup access to the default group: `Everyone`. BEA recommends always using the default security policies for administrative and server resources.

Reference CR196088

### RDBMS Event Generator Trigger Not Deleted For Certain Trigger Type Events created on Microsoft SQL Server

When creating a Trigger Type Event on a schema other than with the DBO username, the SQL Server creates the Trigger in the same schema as the User Table on which it was created. If there is an attempt to insert rows after the Event has been deleted, errors are thrown because the Trigger still exists. Creating the Trigger does not require a schema name prefix but dropping the Trigger requires a schema to be prefixed to the statement.

**Workaround:** After the Event is deleted, the Trigger must be dropped manually using a simple command `DROP TRIGGER <user_table_schema_name>.<trigger_name>`.

Reference CR205996

## Using the RDBMS Event Generator to Publish String or XML Type Channels

If you configure events to publish to a String or XML type channel, the published results will contain a `RowState` attribute similar to the following: `<TableRow wId:RowId="2" wld:RowState="Inserted">`. The `RowState` attribute will always be “Inserted”, even if the event type is “Deleted” or “Update”. You should ignore this attribute as it does not indicate that the Row was inserted.

## RDBMS Event Generator Data Loss

If the WebLogic Workshop application containing the channels to which the RDBMS Event Generator is publishing events is undeployed while the event is publishing data, or if the JDBC Store/Database used for JMS fails, but the database on which the event is configured is still running, there is a possibility of some data being lost. To minimize this possibility, the Rows allocated Per Poll to each Processing Thread should be a small number (around 50 or lesser). This number can be calculated as follows;  $\text{Max Rows Per Poll/No. Of Processing Threads} = \text{Rows Per Processing Thread}$ .

## RDBMS Event Generator Channel Rule Definition

When you are creating channel rule definitions in the WebLogic Integration Administration Console, it is recommended that you do not use the **Back** button if you want to resubmit the details on a page. You should always use the navigation links provided and create a new channel rule definition.

## Slow Down of Sybase Database Table or Microsoft SQL Table When Using RDBMS Event Generator

When a Trigger Type event is created on a Sybase Table or Microsoft SQL Table, the RDBMS Event Generator creates a *Shadow* table that is a replica or subset of the User’s Table. The Trigger copies the Inserted, Deleted, and Updated rows from the User Table into the Shadow Table. As the rate at which rows are inserted, deleted, or updated into the User table increase beyond the rate at which the event generator can poll and process rows, the new rows become backlogged and cause the Poll query to slow down.



**Workaround:** The Shadow table gets created with the same name as the Channel Rule Definition name with an `_BEA_SDW` suffix. To speed up polling and hence processing, a Unique Index must be created on a particular column. For example, if the Trigger Event name (Channel Rule Definition name) is `hello123`, the Shadow Table gets created as `hello123_BEA_SDW`. To workaround this problem, create a Unique Index as follows:

```
CREATE UNIQUE INDEX [idx_hello123] ON
schema_name.hello123_BEA_SDW (BEA_SEQ_ID)
```

Reference CR206549 and CR206332

## Restrictions on Trigger Type Events Created on Informix Databases

Trigger type events created on Informix databases have some restrictions. The value specified in the **No. of Threads** field and **Max Rows Per Poll** field must always be 1 and the value specified in the **Polling Interval** field must be greater than the total time it takes to publish the rows picked up in every poll.

Reference CR200681

## Enabling Auto Commit for RDBMS Event Generators when Working with Informix Databases

If you are working with an Informix database, you should always enable the auto commit mode during an Insert, Update, or Delete event.

Reference CR204272

## Creating New RDBMS Event Generator Channel Rule Definitions in Informix Databases

If you are working with an Informix database and you want to delete an existing channel rule and create a new channel rule with the same name as the one you just deleted, you must set the Statement Cache size to zero.

Reference CR200495

## Creating Triggers on a Sybase Database Table

If you are working with a Sybase database, when a Trigger Event is created on a Sybase table that already has one Trigger Event of the same type, such as Insert, configured, the older Trigger is replaced. This means that the older Trigger Event stops working.

You can have one Insert, one Delete and one Update Trigger Event per Sybase Table.

Reference CR201132

## Correct Data Not Published for Informix Database Triggers with Different Data Types

Due to the fact that Informix databases have peculiar ways of retrieving the Precision and Scale of `DECIMAL` and `MONEY` data types, it is recommended that you specify the Precision and Scale in the User Table - `DECIMAL(p, s)`.

Reference CR200743

## Automatic Delete for Query or Post Query Events in RDBMS Events

In the case of an Query or Post Query Events query with automatic delete (nothing specified in Post Query), the Max Rows Per Poll value is ignored. This was tried with values of 1 and 10 for Max Rows per poll. But in each case, all the rows were published and deleted in one single poll instead of 1 or 10 per poll as specified in the Channel rule definition.

This case is specific to the Sybase database when using the Data Direct driver.

In Oracle 9i DB with Oracle's 9i Thin Driver, the behavior was as expected and only 1 or 10 rows were published as specified in the channel rule definition.

In DB2 and Informix, the automatic delete option is not supported.

Reference CR202902

## View All Timer Event Generators Page Does Not Refresh Status

When using a Timer Event Generator, the **View All Timer Event Generators** page does not refresh the status from Suspend to Running after clicking Resume.

**Workaround:** You must refresh the browser page to show the updated status.

Reference CR206528 and CR202902

## Setting Event Generator Polling Interval for Configuration Changes

The polling interval of the Event Generators may be set to a user-defined interval by using the following Java system properties:

- Email: `wli.eventgen.email.checkConfigDelay`
- File: `wli.eventgen.file.checkConfigDelay`
- Timer: `wli.eventgen.timer.checkConfigDelay`

These properties may be set on the Java command that starts the server. Each property sets the number of milliseconds between polls. For example:

```
-Dwli.eventgen.timer.checkConfigDelay=30000
```

This sets the Timer Event Generator polling for configuration changes every 30 seconds.

If not specified, the default polling interval of 10 seconds is used.

Reference CR186350

## Timer Event Generator May Not Reflect Changes in Business Calendar

After making a change to the Business Calendar, the Timer Event Generator may not pick up the change in the calendar.

**Workaround:** In the **WebLogic Integration Administration Console**→**Event Generators**→**View All File Event Generators** window, select the appropriate Timer Event Generator, click **Suspend**, and then click **Resume**.

Reference CR 206519

## File Event Generator FTP Supports Only Windows and UNIX Type FTP Servers

Only Windows and UNIX type FTP servers are supported by the File Event Generator FTP. VMS is not supported.

Reference CR196414

# 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 Initialization 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.
- The XQuery `processing-instruction` is not supported.

Reference CR143114, CR143234, CR148091, CR185099, and CR199645

## 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

## Message Format Error While Using MFL Non-XML to XML Transformation Method in Format Builder

The delimiter of Group level causes the exception in Format Builder or run time.

**Workaround:** Remove this delimiter.

Reference CR206148

## Transformation Exception for In-Flight Processes when Shutting Down and Restarting Server

If the server is shutdown while a business process transformation is running and restarted, a transformation exception is thrown.

**Workaround:** Restart the business process.

Reference CR206671

# Database and Operating Systems

## Continuous Execution of Applications on Solaris 8, Solaris 9, Solaris 10 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, Solaris 9, or Solaris 10 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
```

For a patch regarding this issue, contact BEA Support.

**Note:** This patch is not required for the Java Hot Spot VM 1.4.2\_06.

**Workaround:** 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
```

Reference CR179157 and CR197793

## 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

## DataDirect Sybase Driver Limitation

REAL data is truncated during publishing. Instead, use DECIMAL or NUMERIC data types. Note that DECIMAL and NUMERIC have wider range of precision than REAL data. Both DataDirect Sybase, XA and NonXA, drivers work well with DECIMAL and NUMERIC data types.

Reference CR201814

## Message Archiver Failure for DB2

If you receive the message “No more available statements,” recreate your DB2 package with a dynamic sections value of 6000 or larger. For more information, see “Creating a DB2 Package” in “The DB2 Driver” in *WebLogic Type 4 JDBC Drivers*, which is available at the following URL:

[http://e-docs.bea.com/wls/docs81/jdbc\\_drivers/db2.html](http://e-docs.bea.com/wls/docs81/jdbc_drivers/db2.html)

Reference CR134341

## WebLogic Integration Startup Database Check Does Not Support Use of Global Synonyms

The WebLogic Integration startup database check does not support the use of global synonyms for accessing the WebLogic Integration tables. To run in this configuration, you must disable the startup database check and apply the patch for CR177114. To disable the database check, create a file called `WLI8.1.x_db_tables_checked` in the `wliconfig` directory of your domain.

The WebLogic Integration startup database check works for private synonyms after the patch for CR130576 is applied.

Reference CR186041

## Business Processes Abort or Do Not Complete after Database Crashes During Two-Phase Commit

If your business processes do not complete or if they abort after your database crashes during the Prepare phase of a two-phase commit, you should restart the managed servers.

For information about recovery, see “WebLogic Integration Application Recovery” in the *WebLogic Integration Solutions Best Practices FAQ*, which is located at the following URL:

<http://e-docs.bea.com/wli/docs81/bpfaq/recovery.html>

Reference CR138799 and CR199827

## Multiple WebLogic Integration Domains Cannot Use the Same Database Schema

WebLogic Integration system tables represent part of a single domain's internal state. This assumption is embedded in the WebLogic Integration operations and management algorithms. Because there is no way to distinguish the two sets of data, results are unpredictable.

Reference CR184242

## Trading Partner Integration

### The ebXML Protocol Uses 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

## 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

# Upgrading WebLogic Integration

## After Upgrading to SP4, startWebLogic.sh and startManagedWebLogic.sh Do Not Have Executable Permission

**Workaround:** You must manually change the permissions to start the WebLogic Server after upgrading.

Reference CR206534

## Upgrade Scripts Fail in Certain Instances During Upgrade From Initial Release of WebLogic Integration to SP2

Certain internal JMS queues, such as `wli.internal.tracking.buffer_error`, are presumed not to exist. When the upgrade script tries to write the entries and finds that they are already present, instead of skipping over the entries, it fails.

**Workaround:** Manually remove the corresponding JMS Queue Entries from `config.xml` before running the upgrade scripts.

Reference CR206328

## JMS Connection Factory for RDBMS Event Generator Not Created Automatically

A JMS Connection Factory (JNDI name is

`wli.internal.egrdbms.XAQueueConnectionFactory`) is required for the RDBMS Event Generator in SP4. However, it is not created automatically by the upgrade script.

**Workaround:** Create the XA Connection Factory manually with the following parameters:

- Load Balancing—on
- Server Affinity—off
- XA Transactions—on

Reference CR205534

## **Worklist Run-time State Cannot Be Migrated from Initial Release to any Service Pack**

**Note:** Before upgrading the initial release of WebLogic Integration 8.1 to SP4, you must upgrade to SP2. For more information, see [Chapter 2, “Upgrading to WebLogic Integration 8.1 SP4.”](#)

The Worklist run-time state cannot be migrated to SP2. For more information, contact BEA Customer Support.

Reference CR206641

## **Out of Memory Error when Upgrading SP2 Cluster Domain to SP4 Domain on Solaris**

If you encounter an out of memory error when using the upgrade script on Solaris, increase memory to at least 256M.

Reference CR206171

# **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

## Worklist

### User-Defined Properties for Tasks Cannot Be Sorted by Property Value

Using the `TaskSelector.setSortByPropertyValue()` method to sort tasks results in an EJB exception.

**Workaround:** Dynamically generate the SQL to query the database for tasks based on specific properties and sort accordingly.

Reference CR195278

## EJB Exception Using TaskSelector setSortBy Properties with DB2 Server

When using certain `setSortBy` properties, such as `setSortByComment`, an error may be displayed similar to the following:

```
<Sep 24, 2004 3:50:08 PM PDT> <Error> <WLI-Worklist> <BEA-493028> <Internal  
error: unexpected ejb exception.>
```

**Workaround:** Increase the temporary tablespace for long row sorting; specify a page size of 16K or 32K.

Reference CR197511

## Login from Worklist User Interface Not Case Sensitive

The Worklist User Interface allows logging in without checking for case sensitivity. However, the tasks associated with users are case sensitive. This means that if users do not login with the correct case, they will not be able to see their tasks. For example, if the login associated with the tasks is *MANAGER1* and the user logged into Worklist as *manager1*, that user's tasks would not be visible.

**Workaround:** Users must use the same case when logging into the Worklist User Interface as used when the tasks were created.

Reference CR205374

## Querying by Task Owner when the Owner is a Group Throws Security Exception

If the owner is a group, you cannot query by task owner using the `Task Selector` or the `WebLogic Integration Administration Console`.

Reference CR204255 and CR203240

## Worklist Tasks Update Or Scrolling Issues

If issues occur when performing concurrent Worklist tasks updates or when scrolling task lists, using either the `WebLogic Integration Administration Console` or `Worklist Scrollable Result Manager`, contact BEA Support regarding the patch for CR204654.

Reference CR204654



## Order of Task Worker Control Methods Return Results Not Guaranteed

For all methods in the Task Worker control that takes in an array of `gaskets` and returns an array of values, the order in which results are returned is not guaranteed.

Reference CR183491

## Deadlocks in Worklist Operations Running with Microsoft SQL Server

Deadlocks may be encountered under high loads of concurrent Worklist operations in the SQL Server. Although deadlocks can be minimized, they cannot be completely avoided. You should design the front-end application—business processes using Worklist or other Worklist clients—to handle deadlocks by trapping for errors and resubmitting the requests.

To help minimize deadlock occurrences, contact BEA Support about setting the proper locking configurations for Worklist tables in the SQL Server.

**Note:** For information about deadlocks in the SQL Server, see  
<http://support.microsoft.com/?kbid=832524#kb2-4>.

Reference CR204698



# Problems Fixed in This Release

The following table lists selected problems fixed in BEA WebLogic Integration 8.1 Service Pack 4, including a CR (Change Request) number for each problem.

To learn more about the known limitations in the WebLogic Integration 8.1 Service Pack 4 release, see [“Known Limitations” on page 3-1](#).

**Table 1. Problems Fixed in BEA WebLogic Integration 8.1 Service Pack 4**

Change Request Number	Description
<b>CR157030</b>	<p><b>Problem:</b> High numbers of active conversations with conversation-lifetime time-out enabled can cause significant memory consumption.</p> <p>Using a conversation-lifetime time-out may result in excessive memory consumption. The conversation-lifetime time-out is enabled on a JPD by default. For information about configuring conversation-lifetime max-age, see <a href="#">Managing Conversation Lifetime</a> in the WebLogic Workshop Help, which is located at the following URL:</p> <p><code>http://edocs.bea.com/workshop/docs81/doc/en/workshop/guide/converse/conControllingConversationLifetime.html</code></p> <p>This problem has been fixed for this release.</p>
<b>CR125293</b>	<p><b>Problem:</b> Suspended status of an event generator is not preserved when the server is restarted.</p> <p>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.</p> <p>This problem has been fixed.</p>
<b>CR128484</b>	<p><b>Problem:</b> The adapter password is in clear text in the log and other readable files.</p> <p>This problem has been fixed for this release.</p>
<b>CR128805</b>	<p><b>Problem:</b> User &lt;anonymous&gt; does not have access to the administrator port.</p> <p>This problem has been fixed for this release.</p>
<b>CR132579</b>	<p><b>Problem:</b> Redeploying application doesn't create a new channel.</p> <p>This problem has been fixed for this release.</p>
<b>CR132665</b>	<p><b>Problem:</b> Un-informative and incorrect error message from Worklist Security.</p> <p>This problem has been fixed for this release.</p>
<b>CR137095</b>	<p><b>Problem:</b> Using a message path with an exception path always causes the exception to be null.</p> <p>This problem has been fixed for this release.</p>

Change Request Number	Description
<b>CR138844</b>	<p><b>Problem:</b> After slow managed server recovery, WebLogic Integration document store garbage collection may fail to restart.</p> <p>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 <code>javax.jms.JMSEException</code>) that is reported in the domain's <code>workshop_debug.log</code>. 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.</p> <p>This problem has been fixed for this release.</p>
<b>CR139010</b>	<p><b>Problem:</b> File event generator may fail to create temporary files under a very high load.</p> <p>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.</p> <p>This problem has been fixed for this release.</p>
<b>CR161919</b>	<p><b>Problem:</b> In <code>com.bea.wli.worklist.api.TaskSelector</code> you cannot search by task completion date.</p> <p>This problem has been fixed for this release.</p>
<b>CR168577</b>	<p><b>Problem:</b> Using the Task control API <code>assignTaskToUsersAndGroups</code> in an environment that includes nested groups, users in the nested group can't see the tasks assigned to its parent group.</p> <p>This problem has been fixed for this release.</p>
<b>CR172290</b>	<p><b>Problem:</b> Business ID type setting from the WebLogic Integration Administration Console is not reflected in the ebXML header as party ID type.</p> <p>This problem has been fixed for this release.</p>
<b>CR173169</b>	<p><b>Problem:</b> Unable to terminate all process instances in the WebLogic Integration Administration Console.</p> <p>This problem has been fixed for this release.</p>
<b>CR173215</b>	<p><b>Problem:</b> CPAID is hard coded in ebXML implementation.</p> <p>This problem has been fixed for this release.</p>

Change Request Number	Description
CR173991	<p><b>Problem:</b> TimeToLive in ebXML is not handled correctly by WebLogic Integration.</p> <p>This problem has been fixed for this release.</p>
CR173992	<p><b>Problem:</b> ebXML implementation does not accept ack messages (and possibly error messages) that are non-multipart messages.</p> <p>This problem has been fixed for this release.</p>
CR174443	<p><b>Problem:</b> The public interface <code>com.bea.wli.worklist.api.TaskSelectorAPI</code> does not provide the ability to sort tasks in ascending or descending order.</p> <p>This problem has been fixed for this release.</p>
CR178483	<p><b>Problem:</b> WebLogic Integration appears to require that timestamps on XML include and be accurate to milliseconds.</p> <p>This problem has been fixed for this release.</p>
CR179210	<p><b>Problem:</b> When adding a long duration (for example, 10,000 hours) to a business calendar, the operation can take over 5 minutes.</p> <p>This problem has been fixed for this release.</p>
CR179425	<p><b>Problem:</b> XML Mapper (Test View): Not cleaning up the test data and null pointer exception.</p> <p>This problem has been fixed for this release.</p>
CR181791	<p><b>Problem:</b> Problem with <code>subtractBusinessTime</code> operation. When performing date calculations using the <code>subtractBusinessTime()</code> method, the operation does not skip over days that are marked busy.</p> <p>This problem has been fixed for this release.</p>
CR184061	<p><b>Problem:</b> Business calendar import always failed.</p> <p>This problem has been fixed for this release.</p>
CR184418	<p><b>Problem:</b> File event generator does not work for FTP setting.</p> <p>This problem has been fixed for this release.</p>

Change Request Number	Description
<b>CR184934</b>	<p><b>Problem:</b> MFL transformation is returning null.</p> <p>When MFL is used in workshop to transform from non-XML to XML of different format, the values in the new XML are null.</p> <p>This problem has been fixed for this release.</p>
<b>CR185001</b>	<p><b>Problem:</b> The time taken to activate a newly deployed application in a cluster is too long.</p> <p>This problem has been fixed for this release.</p>
<b>CR185197</b>	<p><b>Problem:</b> The Date format in <code>TimerEventGen.xml</code> varies by operating system.</p> <p>This problem has been fixed for this release.</p>
<b>CR185207</b>	<p><b>Problem:</b> Timer event generator status toggles between suspended and running mode.</p> <p>Timed event generator status toggles between suspended and running modes for every refresh of the page. The status keeps changing randomly.</p> <p>This problem has been fixed for this release.</p>
<b>CR185496</b>	<p><b>Problem:</b> MFL Field Construction Strings are expensive.</p> <p>This problem has been fixed for this release.</p>
<b>CR185627</b>	<p><b>Problem:</b> Callbacks via Message Broker to older process versions fail.</p> <p>This problem has been fixed for this release.</p>
<b>CR185682</b>	<p><b>Problem:</b> A purge delay set to greater than approximately 24 days is effectively zero.</p> <p>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.</p> <p>This problem has been fixed for this release.</p>

Change Request Number	Description
CR185927	<p><b>Problem:</b> JPD session bean time-out value affects long-running transactions.</p> <p>In WebLogic Integration, business process (JPD) generated session beans have a default time-out 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 <i>weblogic-ejb-jar.xml Deployment Descriptor Reference</i>, which is located at the following URL:  <a href="http://e-docs.bea.com/wls/docs81/ejb/DDreference-ejb-jar.html">http://e-docs.bea.com/wls/docs81/ejb/DDreference-ejb-jar.html</a></p> <p>This problem has been fixed for this release.</p>
CR186041	<p><b>Problem:</b> A fatal start-up error is encountered if the user that owns the WebLogic Integration database tables is not the Schema owner.</p> <p>This problem has been fixed for this release.</p>
CR186228	<p><b>Problem:</b> Avoid Host lookup in JPD proxy creation/method invocation.</p> <p>This problem has been fixed for this release.</p>
CR186329	<p><b>Problem:</b> Over-synchronization in  <code>com.bea.binxml.writers.TokenByteWriter.writeBeginToken(TokenByteWriter.java(Compiled Code))</code>.</p> <p>This problem has been fixed for this release.</p>
CR186565	<p><b>Problem:</b> JPD proxy generated in WLI8.1SP2 is incompatible with 1.3.x JVM.</p> <p>New <code>JpdProxy_client.jar</code> will now work with Jdk 1.3 and Jdk 1.4</p> <p>This problem has been fixed for this release.</p>
CR187162	<p><b>Problem:</b> <code>JpdContext.getExceptionInfo()</code> returns invalid value if both of an exception path and a time-out path are defined.</p> <p>This problem has been fixed for this release.</p>



Change Request Number	Description
CR187251	<p><b>Problem:</b> Format Builder 8.1SP2: Problems with padding.</p> <p>For fixed length fields, Format Builder allows the specification of either a leading or trailing padding value. By default, the Padding option is not selected and the Trailing and Leading radio buttons are enabled with a default of Trailing. However, if the Padding check box is selected, the Trailing and Leading checkboxes are disabled. If the Leading radio button is selected before the check box is selected, the radio button will reset to Trailing once the check box is selected. If the <b>Leading</b> button is selected and the user selects <b>Save</b>, the options are not saved.</p> <p>This problem has been fixed for this release.</p>
CR187531	<p><b>Problem:</b> It is not possible to use the File control with an FTP Server on a non-standard port.</p> <p>This problem has been fixed for this release. Allow port specification.</p>
CR188074	<p><b>Problem:</b> There is a null pointer exception in Format Builder.</p> <p>This problem has been fixed for this release.</p>
CR188127	<p><b>Problem:</b> The task control <code>assignTaskToUserInGroup()</code> does not work with RDBMS authentication Provider.</p> <p>This problem has been fixed for this release.</p>
CR188248	<p><b>Problem:</b> The exception path of a JPD process is executed twice when <code>freezeOnFailure</code> is false and <code>afterExecute</code> is rethrown.</p> <p>This problem has been fixed for this release.</p>
CR190234	<p><b>Problem:</b> When generating a Task Worker control, the method <code>TaskInfo [] getTaskInfos(TaskSelector selector)</code> is missing.</p> <p>This problem has been fixed for this release.</p>
CR190685	<p><b>Problem:</b> Process level exception handler not invoked for Event Choice start node.</p> <p>This problem has been fixed for this release.</p>
CR191051	<p><b>Problem:</b> FTP File event generator unable to access temp files and remote directories.</p> <p>This problem has been fixed for this release.</p>
CR191418	<p><b>Problem:</b> Running process remains when JTA transaction of JPD is timed out.</p> <p>When a JTA transaction of JPD is timed out and a thread is still running in the asynchronous handler, a running process remains.</p> <p>This problem has been fixed for this release.</p>

Change Request Number	Description
<b>CR191506</b>	<p><b>Problem:</b> A null pointer exception is thrown when a message is posted to the Foreign JMS queue using a client that uses the MQ API.</p> <p>This problem has been fixed for this release.</p>
<b>CR191651</b>	<p><b>Problem:</b> Recursive Java object (linked list) to recursive XML mapping is currently not supported in 8.1 SP2 Transformation Design View.</p> <p>This problem has been fixed for this release.</p>
<b>CR191657</b>	<p><b>Problem:</b> In <code>.jpd</code> source view, when you collapse a private method, in the collapsed version it shows method qualifier as public.</p> <p>This problem has been fixed for this release.</p>
<b>CR191658</b>	<p><b>Problem:</b> Null pointer exception when using <code>JpdContext.setOutputHeaders(Element[] headers)</code> method.</p> <p>This problem has been fixed for this release.</p>
<b>CR191713</b>	<p><b>Problem:</b> Pending Exception is not getting reset in <code>ProcessContainerBean</code>.</p> <p>This problem has been fixed for this release.</p>
<b>CR192030</b>	<p><b>Problem:</b> Ability to test transformations is broken in SP3.</p> <p>This problem has been fixed for this release.</p>
<b>CR192802</b>	<p><b>Problem:</b> In the WebLogic Integration Administration Console, you can only terminate one instance of a process at a time.</p> <p>This problem has been fixed for this release.</p>
<b>CR192988</b>	<p><b>Problem:</b> When a JTA transaction of JPD is timed out and a thread is still running in the asynchronous handler, a running process remains.</p> <p>This problem has been fixed for this release.</p>
<b>CR193209</b>	<p><b>Problem:</b> Duplicate channel names appear in subscription nodes.</p> <p>WebLogic Workshop 8.1 SP3 duplicates the channel names under subscription nodes each time a new channel file is created/modified.</p> <p>This problem has been fixed for this release.</p>
<b>CR193616</b>	<p><b>Problem:</b> Possible leak in WebLogic Integration when RosettaNet send gets exception in <code>HttpClient</code> and <code>HttpsClient</code>.</p> <p>This problem has been fixed for this release.</p>

Change Request Number	Description
<b>CR194402</b>	<p><b>Problem:</b> Illegal state exception when calling <code>copy()</code> on an XML bean.</p> <p>When attempting to call the <code>copy()</code> method on an XML bean generated from an XSD, an exception is thrown.</p> <p>This problem has been fixed for this release.</p>
<b>CR194537</b>	<p><b>Problem:</b> Using file control to append content to FTP server may change the filename.</p> <p>This problem has been fixed for this release.</p>
<b>CR194808</b>	<p><b>Problem:</b> Subprocess throws <code>IllegalArgumentException</code> when parent invoked from Web service.</p> <p>This problem has been fixed for this release.</p>
<b>CR194842</b>	<p><b>Problem:</b> Format Builder taking long time converting raw data to XML.</p> <p>This problem has been fixed for this release.</p>
<b>CR195577</b>	<p><b>Problem:</b> Recursive nodes in XQueries not being expanded in Source View.</p> <p>This problem has been fixed for this release.</p>
<b>CR196096</b>	<p><b>Problem:</b> Null pointer exception when using data transformation on <code>ArrayList</code>.</p> <p>This problem has been fixed for this release.</p>
<b>CR196388</b>	<p><b>Problem:</b> Terminating a process does not stop a timer control started in the JPD.</p> <p>This problem has been fixed for this release.</p>
<b>CR196426</b>	<p><b>Problem:</b> MFL Field Construction Strings are expensive.</p> <p>This problem has been fixed for this release.</p>
<b>CR196500</b>	<p><b>Problem:</b> Null pointer exception in Workshop and the Workshop crashes.</p> <p>This problem has been fixed for this release.</p>
<b>CR196635</b>	<p><b>Problem:</b> Archiver scheduled time is changed if you restart the server.</p> <p>This problem has been fixed for this release.</p>
<b>CR196651</b>	<p><b>Problem:</b> Task control factory not persisting changes done to a function.</p> <p>This problem has been fixed for this release.</p>

Change Request Number	Description
<b>CR196872</b>	<b>Problem:</b> Unable to list complete Java class variables in the transformations. This problem has been fixed for this release.
<b>CR198024</b>	<b>Problem:</b> Timeout paths lose their duration when grouped. This problem has been fixed for this release.
<b>CR201465</b>	<b>Problem:</b> Need more detail in error log when the POP3/IMAP configuration was wrong or connection failed on any reason This problem has been fixed for this release.
<b>CR202357</b>	<b>Problem:</b> XQuery Mapper: Unbound variable problem due to incorrectly generated code. This problem has been fixed for this release.
<b>CR204476</b>	<b>Problem:</b> Email event generator unable to read message sent from Microsoft Outlook 2003. This problem has been fixed for this release.
<b>CR205500</b>	<b>Problem:</b> Enumerated types not properly evaluated in XPath predicate. This problem has been fixed for this release.