



BEA WebLogic Integration™

Release Notes

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4. Problems Fixed in This Release

Introduction

This document provides information about the WebLogic Integration™ 8.5 Service Pack 5 (SP5) release. For WebLogic Platform™ release information, see *Release Notes* available at the following URL:

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

Topics Included in this Section

What's New in BEA WebLogic Integration 8.5 Service Pack 5

Describes features supported in the WebLogic Integration 8.5 SP5 release. WebLogic Integration 8.5 SP5 includes support for enhancements and problems fixed in WebLogic Integration 8.5 SP5.

Platform Support and System Requirements

Provides a link to the Supported Configurations documentation.

Tutorials

Provides a list of tutorials and samples provided in WebLogic Integration 8.5 SP5.

Adapters

Provides information about adapters that can be used in the application integration framework.

Related Documents

Provides links to WebLogic Integration 8.5 documents.

What's New in BEA WebLogic Integration 8.5 Service Pack 5

The WebLogic Integration 8.5 SP5 release supports several performance and feature enhancements.

For information about features in the WebLogic Platform 8.1 SP5 release, see *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 8.5 SP5 release, see “[Problems Fixed in This Release](#)” on page 4-1.

The following sections describe the different features that are supported.

Enhancements to Event Generators and Integration Controls

- To recover the timer events that are missed because of a server shutdown, select the **Is Recoverable** check box when you define the channel rules for a Timer event generator. For more information, see “Defining Channel Rules for a Timer Event Generator” in [Event Generators](#) in *Managing WebLogic Integration Solutions*.
- You can now configure a secure port for an MQ Series event generator. The secure port details can be specified while defining the channel rules of the event generator. After configuration, the message data from the queue is sent via a secure port. One-way SSL is supported. For more information, see “Defining Channel Rules for an MQ Series Event Generator” in [Event Generators](#) in *Managing WebLogic Integration Solutions*.
- Deployment descriptor parameters for a JMS event generator can now be configured using a script. The default values of elements in the deployment descriptor file that is created for the JMS event generator can be configured by running a script, from the command line. Using this script, among other values, you can configure the `transaction-type` value in the `ejb-jar.xml` file, the `initial-beans-in-free-pool` value and the `max-beans-in-free-pool` value in the `weblogic-ejb.jar.xml` file.

Contact BEA Customer Support for getting the latest script.

- You can now use the `setTimeout` method in the Http control to set the socket level timeout value. This value, in milliseconds, sets the time-out until response data is received. A timeout value of zero means the process will wait forever to get a response. The default value is zero.

Performance Improvement on Cluster

Process Instance Beans are deployed only on the Administration server. To improve performance and ensure seamless failover, the beans are now cached on the client side. So, after instantiation, method calls to the bean can also be made from the Managed servers.

Process Configuration and Monitoring

You can configure a process to archive the variable values in the process. This can be done both at the system level or at the individual process level. So, it is possible to track the value that was assigned to the process variables while the process is running and track the variable values after the process completes, terminates, or aborts.

When a process is aborted, behavior of the variable tracking varies for stateless and stateful process. Latest variable values for an aborted stateless process are tracked, even if the transaction in which the variable changed might have rolled back. For a stateful process, if an exception is thrown in a transaction block, it is rolled back and the variable values are not preserved. However, variable values prior to the transaction roll back are preserved and can be viewed. For more information, see:

- [System Configuration](#) in *Managing WebLogic Integration Solutions*.
- [Process Configuration](#) in *Managing WebLogic Integration Solutions*.
- [Process Instance Monitoring](#) in *Managing WebLogic Integration Solutions*.

Enhancements to Worklist Task Information

When using the `WorklistManager` methods that accept a `TaskSelector` object, read-only access to the task information in the database has been provided. This allows groups of tasks to be selected without obtaining a lock on the task records in the database. The ability to retrieve task request data, task response data, and task properties as part of the `TaskInfo` object has also been provided. Task data is locked when the task is individually selected, such as by the `getTaskInfo(String taskId)` method (same behavior as previous releases).

Note: If a task is created in a transaction and one of the read-only selector methods is subsequently called in the same transaction (using criteria that would select the task) the task will not be returned. In such cases the `taskId` returned by the call to `createTask` should be used to obtain the task individually (using `getTaskInfo`, for example).

Reference CR212060

Platform Support and System Requirements

For information about 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 8.5 SP5, we recommend that you try out the tutorials listed in this section. In addition, you may want to try out the WebLogic Workshop[®] tutorials that are available 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 8.5 SP5 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/docs85/wltutorial/index.html>

- Tutorials for Trading Partner Integration, which includes:

- Tutorial: Building ebXML Solutions

<http://e-docs.bea.com/wli/docs85/tptutorial/ebxml.html>

- Tutorial: Building RosettaNet Solutions

<http://e-docs.bea.com/wli/docs85/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/docs85/tpintro/ebXMLSec_appx.html

- Example: RosettaNet Security Configuration

http://edocs.bea.com/wli/docs85/tpintro/RNSec_appx.html

Note: The following samples are provided on dev2dev for your convenience and are not supported by BEA.

- Non-XML data mapping sample

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

- Using the Suppressible attribute for a static subscription sample

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

- Async Binary Update Sample

This sample shows an asynchronous client sending binary non-XML data to be converted into XML for processing, and then receiving binary non-XML data in return.

http://e-docs.bea.com/wli/docs85/sol_samples/async_binary.html

- Dynamic Transformation and Routing Sample

This sample shows how to approach the common issues of stateless message routing and transformation.

http://e-docs.bea.com/wli/docs85/sol_samples/dynamicxform.html

- Large File Non-XML Sample

This sample shows the conversion of a large XML file into a series of records for storage in non-XML format.

http://e-docs.bea.com/wli/docs85/sol_samples/largefilenonxml.html

- Sync to Async Sample

This sample shows a synchronous (blocking) client that invokes an asynchronous business process and blocks waiting for the business process to return information.

http://e-docs.bea.com/wli/docs85/sol_samples/sync_async.html

- Worklist Sample

This sample shows how to create and assign large numbers of worklist tasks.

http://e-docs.bea.com/wli/docs85/sol_samples/worklistperf.html

- TIBCO RV Control and Event Generator Sample

This sample application implements a simple loan processing application that uses request/reply, certified messaging and TIBCO event generator headers.

<http://e-docs.bea.com/wli/docs85/tibcorv/sample.html>

- 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,” available at the following URL:

http://e-docs.bea.com/wli/docs85/sol_samples/index.html

Adapters

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

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

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

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

To download the adapters, use the following URL:

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

Related Documents

The following sections provide a link to WebLogic Integration 8.5 documents.

WebLogic Integration 8.5 Documentation

The WebLogic Integration 8.5 documentation is available at the following URL:

<http://e-docs.bea.com/wli/docs85/index.html>

Upgrading to WebLogic Integration 8.5 SP5

This section contains pointers to upgrading previous versions of BEA WebLogic Integration to WebLogic Integration 8.5 SP5. You can refer to the following sections in *WebLogic Integration Upgrade Guide* for more information.

- [Upgrading WebLogic Integration 8.5 to WebLogic Integration 8.5 SP5](#)
- [Upgrading to WebLogic Integration 8.5](#)
- [Upgrading WebLogic Integration 8.1 SP3 and SP2 to WebLogic Integration 8.1 SP4](#)
- [Upgrading WebLogic Integration 2.1 SP 2 and WebLogic Integration 7.0 SP 2 to WebLogic Integration 8.1 SP2](#)
- [Upgrading Security Features](#)
- [Upgrading Application View Controls Created in WebLogic Workshop](#)
- [Upgrading Utility Adapters](#)
- [Upgrading an Adapter Development Project](#)

Upgrading to WebLogic Integration 8.5 SP5

Known Limitations

This section describes known limitations in the BEA WebLogic Integration 8.5 SP5 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](#)
- [BPEL Import Tool](#)
- [BPEL Export Tool](#)

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
- “@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://e-docs.bea.com/wli/docs85/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 about 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 WebLogic Integration application listener to be defined in the `WEB-INF/web.xml` file for the current project. When a process project is created, this application 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 WebLogic Integration application 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 WebLogic Integration process events table.

- The transaction that calls `JpdContext.trackData(XmlObject value)` or `JpdContext.trackData(RawData value)` is rolled back
- The document passed 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://e-docs.bea.com/wli/docs85/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 is still 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 WebLogic Integration 8.1 Service Pack 2, the ability to reset Message Broker message counts on a channel-by-channel basis is supported. 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

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 such cases, 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. 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:

- Set `-DApplicationViewClientEnabled=false` on the server's Java command line.

- 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, but 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://e-docs.bea.com/wli/docs85/javadoc/com/bea/wlai/management/runtime/AppViewSummaryMBean.html>

Reference CR138792

Event Generator Target Changes for a Suspended Application View Apply Only 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 WebLogic Integration 8.1 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 WebLogic Integration 8.1 Service Pack 2. If a business process you created in a previous 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. This annotation is available for **Control Receive** nodes and **Client Request** nodes in positions other than the Start node of the business process. 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, Message Driven Beans (MDB), of events. By default this is 10, that is there can be 10 messages in a consumer's pipeline at one time. If a 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 that the patch for CR110911 is applied. This patch 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

FTPS Not Supported for File Control

The File control cannot be used to do secure FTP because FTPS is not supported.

Reference CR126674

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 licensed 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 `jcxml` file
- by invoking the `setTargetURI` or `setProperty` 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

In the Service Broker Query Builder test tab, when testing query expressions that you previously edited in Source View, you may receive an error message. 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. So, filtering or retrieving events based on metadata is not supported at this time.

Reference CR138802

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, and since 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 create 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 available on the console 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 name (specified when defining the channel rule) 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 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 channel 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 each of Insert, Delete and 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 atypical 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 a 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. However, 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 view 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 CR206519

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

Large Message Transfer Fails in RDBMS Event Generator

When field type is CLOB or BLOB (Oracle) or field length exceeds the maximum integer value (for other databases), `NumberFormatException` is thrown in the `rdbmseg.log` file.

Reference CR238779

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 reopen 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 elements 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 run-time 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, before running the query, edit the XML data that is generated and delete any extra choice groups so that only a single choice group remains.

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 to 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`.

The reserved XQuery keywords are:

- 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, when starting the server, you must change the system encoding 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 and restarted while a business process transformation is running, a transformation exception is thrown.

Workaround: Restart the business process.

Reference CR206671

Limitation on Number of Nested Tags Displayed in XQuery Mapper Text View

WebLogic Workshop XQuery Mapper Test View can display an XML document up to 16 levels deep. Elements beyond 16 levels are not displayed.

Reference CR186028

Database and Operating Systems

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

Contact BEA Customer Support for the latest patch.

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

Workaround: Follow the steps in this 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 might 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 While Using the 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 and the transaction will be retried.

Reference CR155769

DataDirect Sybase Driver Limitation

REAL data is truncated during publishing. So, use DECIMAL or NUMERIC data types. Note that DECIMAL and NUMERIC data have a wider range of precision than REAL data. Both DataDirect Sybase, and 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 “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

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, 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/docs85/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. Since there is no way to distinguish the two sets of data, results are unpredictable.

Reference CR184242

XA Transaction May Break with XAER_RMERR Error

Use of the implicit result set closure results in a general performance boost, but it may also break XA transactions as the server is not explicitly closing the result sets. This might break XA transactions and result in an `XAER_RMERR` error.

Workaround: Set the `AllowImplicitResultSetCloseForXA` property to `false`. You will need this additional connection option to disable the implicit closure of result set. It is recommended that you set this flag to `false`.

Reference CR193458

Exception May Occur While Inserting a BLOB During Batch Update

Sometimes, while inserting a BLOB during a batch update, the following exception is thrown:

```
weblogic.jdbc.base.BaseBatchUpdateException: [BEA][DB2 JDBC  
Driver][DB2]VALUE OF INPUT HOST VARIABLE NUM 8 NOT USED; WRONG DATA TYPE
```

Workaround: Set the `BatchPerformanceWorkaround` property to `true`. This property determines whether certain restrictions are enforced to facilitate data conversions. If set to `false`, the methods used to set the parameter values of a batch operation performed using a `PreparedStatement` must match the database data type of the column the parameter is associated with. This is because DB2 servers do not perform implicit data conversions. If set to `true`, this restriction is removed.

For more details, see http://e-docs.bea.com/wls/docs81/jdbc_drivers/db2.html

It is recommended that you set this flag to `true`.

Reference CR207069

JDBC Connections May Become Defunct When DBMS Connectivity is Lost

When connectivity to the DBMS is lost, even if only momentarily, some or all of the JDBC connections in the connection pool typically become defunct.

Workaround: Set the following option:

```
TestConnectionsOnReserve="true"
```

The connection pool should be configured to test connections on reserve (*strongly recommended*). So, when an application requests a database connection, WebLogic Server tests the connection, discovers that the connection is dead, and tries to replace it with a new connection to satisfy the request. For more details, see <http://e-docs.bea.com/wls/docs81/jdbc/programming.html>

Reference CR207069

DB2 XA Configurations May Run at a Slow Rate

While using DB2 XA configurations, there is a negative impact on performance if the application has been running for an extended period of time.

Reference CR231621

Trading Partner Integration

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

When you use 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 and 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://e-docs.bea.com/wli/docs85/tptutorial/rosettanet.html) available at the following URL:

<http://e-docs.bea.com/wli/docs85/tptutorial/rosettanet.html>

Reference CR155713

Update Older Bulkloader XML Files when Using Signature Configurations

In addition to SHA1, WebLogic Integration supports MD5 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://e-docs.bea.com/wli/docs85/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://e-docs.bea.com/wli/docs85/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 WebLogic Integration 8.1 SP4, startWebLogic.sh and startManagedWebLogic.sh Do Not Have Executable Permission

Workaround: After upgrading, you must manually change the permissions to start the WebLogic Server.

Reference CR206534

Upgrade Scripts Fail in Certain Instances During Upgrade From Initial Release of WebLogic Integration 8.1 to WebLogic Integration 8.1 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 WebLogic Integration 8.1 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 WebLogic Integration 8.1 Initial Release to any Service Pack Release

Note: Before upgrading the initial release of WebLogic Integration 8.1 to WebLogic Integration 8.1 SP4, you must upgrade to WebLogic Integration 8.1 SP2. For more information, see “Upgrading WebLogic Integration 8.1 SP2 and SP3 to WebLogic Integration 8.1 SP4” in [WebLogic Integration Upgrade Guide](#).

The Worklist run-time state cannot be migrated to WebLogic Integration 8.1 SP2. For more information, contact BEA Customer Support.

Reference CR206641

Out of Memory Error when Upgrading WebLogic Integration 8.1 SP2 Cluster Domain to WebLogic Integration 8.1 SP4 Domain on Solaris

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

Reference CR206171

Upgrade Script May Skip Substitutions

While specifying the values in the `options.properties` file, if you specify the property `os=unix`, substitutions may be skipped when executing the upgrade script. Use the default property `os=both`, as it ensures that all paths are properly upgraded. If you choose run the upgrade script using the `os=unix` property, run the `update_paths` target manually.

Reference CR237788

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](#) sample documentation in the WebLogic Workshop Online Help 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 login name with 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

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 can 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.

Note: This problem does not occur if you do a fresh installation of WebLogic Integration 8.5 SP5. It only occurs when you upgrade from any earlier releases of WebLogic Integration 8.5 to WebLogic Integration 8.5 SP5.

To help minimize deadlock occurrences, contact BEA Support for information 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 and CR242075.

Error occurs when request or response data of TaskInfo object is not set

When a TaskInfo object is passed through a web service (JWS) and either or both of the request and response objects are not set, the service fails with the following error message:

Null value encountered where XML schema requires a value

Note: This error does not occur when you use TaskInfo objects in JPDs or via EJB calls through WorklistManager.

Reference CR242902

Web Service Cannot Take or Return an XmlObject That is Null

A web service (JWS) cannot take in or return an XmlObject, or any object containing an XmlObject if that XmlObject is null.

Reference CR238967

BPEL Import Tool

This section details some known limitations and issues of the BPEL Import tool. The majority of these issues exist because of the inherent differences between the JPD and BPEL languages.

It is very important that you confirm that the generated JPD file corresponds semantically with the input BPEL file.

- Conversion of Compensation Handlers is not supported. If you try to convert a BPEL file that contains Compensation Handlers, a warning appears stating that Compensation Handlers are not supported and are ignored in the generated JPD file. The conversion process will continue after this warning is displayed.

- Global `eventHandler` is not supported. If it is included in the BPEL file, it is ignored during the conversion process and the following message appears: `Global EventHandlers are not supported, hence ignored.`
- Conversion of `wait` and `onAlarm` for which the duration is specified using the `until` attribute is not supported. If the `until` attribute is contained in the BPEL file, a warning appears stating that it is not supported and is ignored in the generated JPD file. The conversion process will continue after this warning is displayed.
Note: Both attributes (`for` and `until`) cannot be specified in a valid BPEL file.
- A BPEL file that starts with a `flow` is not supported. You cannot convert a BPEL file that has a `flow` construct as a first logical child. In this instance, logical activity refers to any activity other than sequence and scope.
- Conversion of links from activity flow is not supported. If links are present in the BPEL file that you want to convert, a warning appears stating that the generated JPD file may be erroneous as it contains `links`, `source`, `target`. The conversion process will continue and will ignore these unsupported activities.
- Conversion of a BPEL file in which more than one `reply` activity is used to return normal output/outcome is not supported. In order to qualify for conversion, a BPEL file must only contain one `reply` activity to return a normal outcome. This is due to the fact that in a JPD file, there can only be one `returnMethod` for any synchronous `clientReceive`. However, in a BPEL file, there can be several `reply` activities for a single `receive`. There is no direct way to map one `receive` and several `reply` nodes to a single `clientRequestWithReturn`.
- A `pick` activity with more than one `onAlarm` activity is not supported for conversion. This is due to the fact that `pick` gets converted to `eventChoice`. Each `eventChoice` can have at most one `timeoutEvent` node, which is generated for an `onAlarm` activity.
- Specifying the `for` attribute of `onAlarm` activity using `bpws:getVariableData(..)` is not supported. When a `for` attribute is specified using `bpws:getVariableData(..)`, the imported code produces a syntax error.
- If the import fails with the following message: `WARNING: Failed to parse input XSD & WSDL files. Please see logs for detail, and the log file contains the following error message: Duplicate global type, you should specify that multiple definitions of the namespace are ignored.`

The log file for the import process, named `BpelImport.log`, is stored in `%BEA_HOME%\weblogic81\workshop` where `%BEA_HOME%` is the directory where you installed WebLogic Workshop. This log file provides information about the import process.

To specify that multiple definitions of the namespace are ignored, select **Schema Project**→ **Properties**→ **Build** and list the namespaces to be ignored in the **ignore multiple definitions in following namespaces** field.

- Limited query parsing is performed when `assign` activities are imported. Therefore, the generated XQuery expressions might not always be syntactically correct. Make sure that you verify the correctness of any generated XQuery expressions.
- Any reference to SOAP encoding types in your BPEL file will result in import failure. If you want to import a BPEL file that contains SOAP encoding types, you must place the *SOAP Encoding* XSD file in the WSDL directory when importing through WebLogic Workshop.
- When `assign` is converted to a variable, the resultant XQuery file may contain the following “PARSE ERROR” in the Design view: The main XML element does not match the root node of the target schema. However, you can ignore this message as the correct value is generated at run-time. This error is due to the fact that the **Design** view of XML Mapper has limitations and might not always be able to parse even correct XQuery expressions.
- After you import a BPEL file that contains scope level `eventHandlers` in the `onMessage` branch, a dummy Timer method may be generated for the `eventHandler` `onMessage` path. JPD specification mandates that `onMessage` and `onTimeout` paths can only be associated with process nodes (or block of nodes) that do not run automatically. To handle this constraint, a dummy Timer node with a 1 second timeout is created if an `eventHandler` is associated with a scope that does not contain any `receive`, `onMessage`, `flow`, or `wait` activity.
- When a BPEL file is imported, queries are not parsed, they are imported ‘as is’. You must properly qualify the query string or the generated XQueries will fail at run-time, by setting the `attributeFormDefault=“qualified”` and `elementFormDefault=“qualified”` and then using the qualified query string.
- A BPEL file may have `reply` activities on multiple partner links. This is not supported in a JPD file. Only one such partner link will be converted as `clientRequestWithReturn` that matches the reply semantics. `reply` activities on other partner links will be converted into an asynchronous interface.
- BPEL Event Handlers are translated to JPD `onMessage` paths which have slightly different semantics. In the imported JPD file, once the event is received and the `onMessage` path is executing, the block (corresponding to the BPEL scope) does not continue executing until the `onMessage` path completes. This also means that only one instance of an Event Handler can be active at any one time.

- In the imported JPD file, Event Handlers will not be triggered while waiting for the response of a synchronous Web service.
- The BPEL Import tool converts BPEL `invoke` activities to Web Service `controlSend` calls. It generates a Web Service control for the specified partner service and the JPD file invokes the corresponding method on the control. This release has some limitations in its capability to generate a Web Service control (a JCX file) in certain situations. You should carefully examine the contents of the generated JCX file to ensure that you can compile it.
- If the input WSDL file does not have any bindings and service information for any `portTypes`, the BPEL Import tool tries to generate a method for each `portType` with some default values for the binding and service information. You should review these default values carefully. You should provide valid binding and service information after the import.
- The JPD file generated from BPEL processes that contain `<reply>` in Switch, Case, or Otherwise nodes may not be logically correct. This is because the matching `receive` and `reply` of the synchronous operation are not present at the same level.
- BPEL allows event handlers to be associated with any arbitrary activities. However, a JPD file does not support cases where event handlers are associated with any node inside a `<receive>` - `<reply>` block. In such a scenario, the generated JPD may not compile.

BPEL Export Tool

This section details some of the known JPD export limitations.

- Any warning messages that are generated during the export process do not include an exact line number reference of the original JPD file.
- Constants declared in a JPD file are captured in the BPEL file as `jpd:initialValue`.
- When you export a JPD file that contains a Service Broker control, the shape of the process and control WSDLs are derived from the JPD file and are different from the JPD WSDL.
- Any methods that are not directly associated with a JPD node are lost during the export.
- If a converted control (Service Broker or Process) produces a method with a void return, there are two possible causes:
 - the corresponding operation has no output message.
 - the operation has an output message with no parts.

The BPEL Export tool does not distinguish between the two cases and always assumes that the first case is true.

- User schemas are referenced by a `xsd:include` element. If the types used are in a WSDL file, it is exported using `wsdl:import`.
- If the schemas folder is created with the default name, all XSD files placed in the top level directory of this folder will be referenced by an absolute file URL. For all other XSD files, just the filename is referenced.
- If a JPD file contains `ArrayList` or another `Collection` class's `add()` method, a non-standard JPD namespace attribute `jpd:appendToCollection` is generated with its value set to `true`.
- If MFL types are used in the JPD file, they are converted to a dummy empty type and the following warning message is displayed:

MFL types are not supported for export. Creating an empty element type for <type>.

- Assign statements are generated to assign global variables to and from Web service messages. However, if the Web service message does not have any part defined, no assign statement is generated.
- Service controls are treated as generic Java controls. The original WSDL file for the Service control is not used in the export.
- `afterExecute=resume` is not supported for the following paths:
 - `OnTimeout`
 - `OnException`
 - `OnMessage`
- `freezeOnFailure=true`, `onSyncFailure`, and `persistent` are not supported.
- `executeOnRollback` is not supported for `OnException` path.
- Transaction blocks are converted into a scope with BPEL extension `jpd:transaction` set to `true`.
- XQuery transformations are copied into the `<jpd:xquerycode>` node as a BPEL extension.
- During the export process, Java code is copied into the `<jpd:javacode>` node as a BPEL extension.

- Message Broker subscriptions are exported as partner links. The message broker channel name and subscription filter are not included in the export.
- Perform nodes are exported as an empty activity. Java code is included as a `<jpd:javacode>` extension.
- Attribute information for controls in the JCX file or before the control declaration are lost. For example, for Message Broker controls, the channel name and subscription filters are not copied into the exported BPEL or WSDL files.
- When process variable names, control file names (.dtf, .jcs and so on), control method names, parameters used in control methods, variable names defined for controls, and .jpd file names that contain special character like \$ are exported to .bpel files, these names are used as is in the “name” attribute of “variable” and “variable” attribute of “to”. Since BPEL schema defines these attributes as NCName type, these special characters become invalid in the generated .bpel file. However, this limitation is no longer valid for the \$ character. For any other special character (that is not valid NCName or QName type), although the .bpel file is generated, schema validation of the file fails.

Workaround: The generated .bpel file needs to be manually modified by using valid characters.

Problems Fixed in This Release

The following table lists selected problems fixed in BEA WebLogic Integration 8.5 SP5, including the Change Request (CR) number for each problem

To learn more about the known limitations in the WebLogic Integration 8.5 SP5 release, see [“Known Limitations” on page 3-1](#).

Table 4-1 Problems Fixed in BEA WebLogic Integration 8.5 SP5.

Change Request Number	Description
CR138762	<p>Problem: When the File Type for a File event generator channel was FTP, and Post Read Action was set to Archive, the event generator archived files in the Archive Directory specified on the remote FTP server instead of in the specified Archive Directory on the local machine.</p> <p>This problem has now been fixed.</p>
CR184743	<p>Problem: When the WebClarify CRM adapter was used for application integration, if the value of <code>JMSConnectionFactoryJNDIName</code> in the <code><domain_home>/wliconfig/AIConfiguration.xml</code> file was empty or blank, a <code>ClassCastException</code> was thrown.</p> <p>This problem has now been fixed.</p>
CR184790	<p>Problem: When the destination JNDI name of the JMS event generator was not available, an exception was thrown.</p> <p>This problem has now been fixed.</p>

Change Request Number	Description
CR190395	<p>Problem: When tracking a process instance in WebLogic Integration Administration Console, if the process tracking level was set to None, the state of a process was displayed as Running even though it had stopped.</p> <p>This problem has now been fixed.</p>
CR192851	<p>Problem: Malformed XML that did not comply with the XSD was not logged.</p> <p>This problem has now been fixed.</p>
CR193152	<p>Problem: The <code>get()</code> method of the form <code>is<Field></code> was not supported for private boolean fields in a Java class that was used in a transformation.</p> <p>This problem has now been fixed.</p>
CR195735	<p>Problem: The <code>setConnectionSpec()</code> method of the <code>Applicationview</code> class is used to connect to an EIS. When the properties of the <code>ManagedConnectionFactory</code> were configured as per JCA compliance through <code>ConnectionRequestInfo</code> by using client-specific properties in a process, <code>getConnection()</code> method invocation was not enabled to pass runtime parameters to the adapter for a connection based on <code>setConnectionSpec</code> from the <code>Applicationview</code> class.</p> <p>This problem has now been fixed.</p>
CR200454	<p>Problem: The Timer event fired as per schedule without taking daylight savings time into account.</p> <p>Now, while defining the channel rules for a Timer event generator in WebLogic Integration Administration Console, select the Daylight Saving time options to ensure that the event is triggered taking the daylight saving time into account.</p>
CR202881	<p>Problem: When a client called a JPD that accepted an <code>XMLObject</code> via a JPD proxy passing typed XML object, the server did not recognize the typed object and threw an exception. This happened because even though the signatures of the JPD proxy interface and JPD were in terms of the <code>XMLObject</code>, the runtime object passed around was a typed <code>XMLObject</code>.</p> <p>Now, the new <code>create(Class publicContract, String serviceUri, ContextHandler ch, Boolean changeType)</code> JPD Proxy API, available in <code>com.bea.wli.bpm.proxy.JpdProxy</code>, has been enhanced with the addition of the <code>changeType</code> option. When this value is set to <code>true</code> during Proxy creation, the XML is repackaged into a generic <code>XMLObject</code> by removing the type information, prior to sending it to the server.</p>

Change Request Number	Description
CR203401	<p>Problem: The first call made to a business process (JPD file) that included controls, took a longer time than subsequent calls made to that process.</p> <p>To fix this problem, set the <code>Dweblogic.wli.jpd.precompile</code> property to <code>true</code> in the <code>setDomainEnv.sh</code> or the <code>setDomainEnv.cmd</code> file. This ensures that the JPD file is pre-compiled during the boot up process. The default value of this property is <code>false</code>.</p>
CR206290	<p>Problem: When a process instance was aborted, the process label information set for the current transaction was also lost.</p> <p>Now, even if the transaction rolls back, the process label information is retained.</p>
CR207424	<p>Problem: A transformation using an MFL class failed with an <code>IndexOutOfBoundsException</code> under a process context. However, it was successfully transformed with a Pure Java class and the Format Builder.</p> <p>This problem has now been fixed.</p>
CR207510	<p>Problem: Executing an internal SQL statement caused range locks in Sybase, which created a deadlock during transactions.</p> <p>This problem has now been fixed.</p>
CR208461	<p>Problem: When a stateless JPD is called from a stateful JPD, there was an inconsistency in the process ID value displayed in the Process Instance Monitoring page.</p> <p>Now, process ID of this type of stateless JPD is not shown in the page.</p>
CR209069	<p>Problem: Sometimes, after the server had been restarted, there was an inconsistency about when a Timer event generator associated with a business calendar was triggered.</p> <p>This problem has now been fixed.</p>
CR209267	<p>Problem: When there was an in-flight transaction (that is, the business process was still running) read-only access to the stateful JPDs (entity beans) was not available.</p> <p>This problem has now been fixed.</p>
CR209452	<p>Problem: Using XMLToolkit (<code>xmltoolkit.jar</code>) to validate an XML document against an XSD failed with an <code>ArrayIndexOutOfBoundsException</code> when the XML structure had <code>xsd:group</code> as a reference in <code>xsd:choice</code>.</p> <p>This problem has now been fixed.</p>
CR210151	<p>Problem: Data transformation of large (greater than 50KB) MFL files to XML threw a <code>NumberFormatException</code>.</p> <p>This problem has now been fixed.</p>

Change Request Number	Description
CR211847	<p>Problem: An <code>IllegalArgumentException</code> was thrown when a web service that called a process (using a process control) was created and the first process subsequently called another process, and the same XML data was passed as input in each process invocation and for the web service.</p> <p>This problem has been fixed for JRocket JVM. Refer to bug ID 4224921 in Sun's Bug Database for information about this problem in Sun JVM.</p>
CR213514	<p>Problem: When an Application View control is invoked for the first time, an application view is created and cached. If the <code>namespaceEnforcementEnabled</code> attribute was modified, this change in value was reflected in the cached application view and its attributes only after the server was rebooted.</p> <p>This problem has now been fixed.</p>
CR213516	<p>Problem: A <code>NullPointerException</code> was thrown while updating the XML schema at run-time with XML data using the <code>SOMSchema.isValid()</code> method.</p> <p>This problem has now been fixed.</p>
CR214734	<p>Problem: Messages sent to any subscriber that failed even after the configured number of retries were not preserved.</p> <p>These messages can now be captured by using the following new <code>JpdContext</code> callback handler in the JPD source (add this code snippet by clicking Source View).</p> <pre>public void context_onInitialMessageFailure(String methodName, Object[] args) { // Add your logic here }</pre> <p>Note: This callback handler is only invoked once per message. If the callback method throws an unhandled exception during processing, an error message is logged and the original input message is no longer available.</p>
CR215442	<p>Problem: When a process was aborted and the application was undeployed, the process could not be terminated from WebLogic Integration Administration Console.</p> <p>This problem has now been fixed.</p>

Change Request Number	Description
CR218533	<p>Problem: When a Transformation function was created using a large and complex Java Data Model class with nested objects references more than 10 levels deep, the XQuery compilation failed.</p> <p>This problem has been fixed and now:</p> <ul style="list-style-type: none"> • You can specify the max bounds of Java class structure. • If the Java class structure contains unsupported or unknown Java class types, the transformation compilation and runtime will still work as long as those unsupported classes are not used in the transformation operation. • If your Java class structure exceeds the specified depth, breadth or total resolutions, the transformation compilation and runtime will still work as long as those nodes beyond the limit are not used in the transformation.
CR218880	<p>Problem: Sorting of business calendar rules caused data error.</p> <p>This problem has now been fixed.</p>
CR219281	<p>Problem: Timer event generator associated with a business calendar threw an exception after the server was stopped and restarted.</p> <p>This problem has now been fixed.</p>
CR219654	<p>Problem: The ebMS acknowledgment message produced by a business partner was rejected by the WebLogic Integration server because it expected the millisecond data in the time stamp to be a 3-digit value. However, this is not mandatory based on the ebXML 2.0 specification.</p> <p>This problem has now been fixed.</p>
CR219785	<p>Problem: When the listen port was disabled on the Administration server and the Managed servers, method invocation on <code>ProcessRuntimeMBean</code> threw a <code>ConnectException</code>.</p> <p>This problem has been fixed by using the secure protocol and port when the default listen port is disabled.</p>
CR220415	<p>Problem: Extra white space characters were removed while sending an ebXML message.</p> <p>Now, ebXML messages are sent “as is” without removing any white spaces.</p>
CR220519	<p>Problem: When an XML object for the RosettaNet payload was created using a web service, a <code>NullPointerException</code> was thrown.</p> <p>This problem has now been fixed.</p>

Change Request Number	Description
CR220568	<p>Problem: A Fatal Xerces Schema error occurred, under load, when the Validate option was enabled when the process control was invoked.</p> <p>When the process control was invoked, with the Validate option enabled and under load, the Fatal Xerces Schema error was displayed.</p> <p>This problem has now been fixed.</p>
CR220647	<p>Problem: A file placed in the FTP directory was not downloaded during the first polling interval. Instead, in the first polling interval the existence of the file was verified and only during the second poll was the file downloaded.</p> <p>This problem has now been fixed.</p>
CR222858	<p>Problem: The <From> value inside the <Acknowledgment> element of an ebXML message contained an incorrect value.</p> <p>This problem has now been fixed.</p>
CR223391	<p>Problem: Reference elements in signed ebXML acknowledgements did not have namespaces.</p> <p>This problem has now been fixed.</p>
CR224916	<p>Problem: When a JMS event generator subscribed to a channel that accepts XML using the SOAP protocol was created, an <code>MBConnectorException</code> was thrown.</p> <p>This problem has been fixed by making the SOAP header element optional, conforming to the SOAP specification.</p>
CR225057	<p>Problem: For synchronous and asynchronous business processes, the RDBMS adapter exceptions were not handled by the Application View control.</p> <p>This problem has now been fixed.</p>
CR225677	<p>Problem: A few processes aborted instead of freezing even when the freeze on failure property was set to true in the Property Editor.</p> <p>This problem has now been fixed.</p>
CR226387	<p>Problem: When there was more than one client, simultaneous execution of an XQuery sometimes threw an <code>XQRLSystemException</code>.</p> <p>This problem has now been fixed.</p>

Change Request Number	Description
CR227242	<p>Problem: When creating RDBMS events in WebLogic Integration Administration Console, a list of synonyms for tables types in a schema were not available.</p> <p>Now, while defining the channel rule for an RDBMS event generator, you can select the synonyms for which you want to generate events.</p>
CR227662	<p>Problem: When the Administration server was rebooted, but the Managed servers were running, applications could not be deployed or undeployed.</p> <p>This problem has now been fixed.</p>
CR230256	<p>Problem: Although the XML Beans compiler compiled all the included elements from one schema into the target namespace of another schema, these target schemas could not be validated while deploying the business process file (JPD).</p> <p>This problem has now been fixed.</p>
CR230273	<p>Problem: When a business process used a schema referencing a root element with a type declaration from another schema, XSD validation failed while creating a Web service for that business process.</p> <p>This problem has now been fixed.</p>
CR230728	<p>Problem: On HP UNIX systems, when a business process had some MB Subscriber controls that dynamically subscribed to the MB channels with the <code>onMessages</code> callbacks and the MB Subscriber nodes where within a While loop, the MB channel subscriber's <code>onMessage</code> function was called twice by the same published message.</p> <p>This problem has now been fixed.</p>
CR233567	<p>Problem: Users with restricted access to the WebLogic Integration Administration Console could not view the XML Cache.</p> <p>Now, such users have Read-only access to the XML Cache.</p>
CR233577	<p>Problem: An <code>ArrayIndexOutOfBoundsException</code> was thrown when using the Sync-Async Control.</p> <p>This problem has now been fixed.</p>
CR233736	<p>Problem: While creating a WLI JMS control, the JNDI names for queues, topics, and connection factories that were related to foreign destinations did not appear in the selection list of the control.</p> <p>This has now been fixed.</p>

Change Request Number	Description
CR234653	<p>Problem: When some characters that have a special meaning in a regular expression were used as delimiter, an exception was thrown during data transformation.</p> <p>This problem has now been fixed.</p>
CR234892	<p>Problem: When business processes that contained node names in Multibyte character set (MBCS) characters were exported from .jdp files to .bpel files or .wsdl files using the BPEL Export tool, the MBCS characters were converted to “-” character. When business processes that contained node names in Multibyte character set (MBCS) characters were imported from .bpel files or .wsdl files to .jdp files using the BPEL Import Tool, the MBCS characters were converted to “_” character.</p> <p>This problem has now been fixed.</p>
CR234976	<p>Problem: While building application schemas, if the <code>wli-channels.xml</code> file was not found in the <code>META-INF</code> folder, a <code>java.io.FileNotFoundException</code> was thrown.</p> <p>This problem has now been fixed.</p>
CR235779	<p>Problem: When public variable names defined in the Decision, Switch, While Do, Do While, and Perform nodes in a business process that contained Multibyte character set (MBCS) characters were exported from .jdp files to .bpel files using the BPEL Export Tool, these variables were not listed in the process/variables section in the .bpel file.</p> <p>This problem has now been fixed.</p>
CR237473	<p>Problem: When a process instance that created a task aborts, it did not remove itself as the task listener. So task event callbacks were still processed and delivered to the process instance.</p> <p>This problem has now been fixed.</p>
CR237560	<p>Problem: Literals in both binary to XML and XML to binary transformation were not handled properly. In addition, large data sets failed because there was a problem in the buffer that handled the runtime transformation data.</p> <p>These problems have now been fixed.</p>

Change Request Number	Description
CR238168	<p>Problem: When importing a BPEL file, while <code>Invoke</code> was converted into a <code>ControlSend, Receive</code> (which had the same <code>PartnerLink</code> as <code>Invoke</code>) got converted into a <code>ClientRequest</code> instead of <code>ControlReceive</code>. This happened when <code>CorrelationSet</code> was absent.</p> <p>Now, the <code>Receive</code> node in BPEL is converted into <code>ControlReceive</code> node in the JPD and corresponding partner-link operation is converted into callback in the Service Control (JCX file). However, the converted callback of the Service Control contains input message in the WSDL file. Since WebLogic Workshop does not permit this, the input message should be manually converted into output message.</p>
CR240501	<p>Problem: During data transformation, WebLogic Workshop XQuery Mapper for the transformation method did not list all the variables from the Java class object type in the source or target schema. This occurred because at run-time, XQuery did not recognize more than 100 attributes.</p> <p>This problem has now been fixed.</p>

