

# **Oracle® Java Composite Application Platform Suite 6.3 Release Notes**

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# Oracle Java Composite Application Platform Suite 6.3 Release Notes

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Oracle Java Composite Application Platform Suite (Java CAPS) combines technologies from Oracle to form a modular and pluggable business integration platform that supports the complete spectrum of service integration requirements. Java CAPS includes repository-based core components and Adapters along with JBI Service Engines and Binding Components, giving you more options and greater flexibility in designing your composite applications. It uses NetBeans as the visual development environment, and the applications you create are deployed on the GlassFish Enterprise Server. This combination allows you to develop custom composite applications, Java EE applications, web applications, mobile applications, and web services using Java EE, JBI, and repository-based components.

The changes for this release are described in the following topics:

- [“Starting GlassFish from the NetBeans IDE” on page 9](#)
- [“Installing and Upgrading” on page 9](#)
- [“Changes to the Default Domain” on page 9](#)
- [“Oracle WebLogic JMS and Advanced Queuing” on page 10](#)
- [“Changes and Enhancements to Java CAPS Components” on page 10](#)
- [“Issues Addressed in Java CAPS 6.3” on page 18](#)
- [“Known Issues in Java CAPS 6.3” on page 30](#)

To access all the Java CAPS documentation in HTML and PDF format, go to the [Java CAPS Documentation](#) page on the Oracle Technology Network.

## Operating System, External System, and Platform Updates

Java CAPS 6.3 supports newer versions of NetBeans and GlassFish Enterprise Server. In addition, release 6.3 provides support for new operating systems and external systems.

The following sections list the newly supported systems and platforms:

- “Design-Time and Runtime Platform Changes” on page 6
- “Operating System Changes” on page 6
- “Browser and External System Changes” on page 7

For a complete list of supported operating systems and external systems, see “Java CAPS 6.3 Supported Operating Systems” in *Planning for Oracle Java CAPS 6.3 Installation* and “Java CAPS 6.3 Components and Supported External Systems” in *Planning for Oracle Java CAPS 6.3 Installation*.

## Design-Time and Runtime Platform Changes

This release of Java CAPS uses the following versions of NetBeans and GlassFish:

- NetBeans IDE 6.9
- GlassFish Enterprise Server 2.1.1 patch 9

The supported JDK versions are 1.6.0\_20 or later. For JDK version information for specific platforms, see “Java CAPS 6.3 Supported JDK Versions” in *Planning for Oracle Java CAPS 6.3 Installation*.

## Operating System Changes

This release of Java CAPS provides new support for the following operating systems:

### Design-Time

- Microsoft Windows 7 (32 bit)
- Red Hat Enterprise Linux Server 5.5 (32 and 64 bit)

### Runtime

- Microsoft Windows Server 2008 R2 (OS: 64 bit; JVM: 32 and 64 bit)

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**Note** – 64-bit OS with 64-bit JVM is not supported on the cluster profile.

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- Microsoft Windows 7
- Solaris 10 SPARC Update 4 or later (OS: 64 bit; JVM: 64 bit)
- Solaris 9 SPARC Update 9 or later (OS: 64; JVM: 64 bit)
- Red Hat Enterprise Linux Server 5.5 (OS: 64 bit; JVM: 64 bit)
- IBM AIX 6.1 (TL2 or later) (OS: 64 bit; JVM: 32 bit)
- IBM AIX 6.1 (TL2 or later) (OS: 64 bit; JVM: 64 bit)

- SUSE Linux Enterprise Server 10 SP1 or later (OS: 64 bit; JVM: 32 bit)
- SUSE Linux Enterprise Server 11 (OS: 64 bit; JVM: 64 bit)
- SUSE Linux Enterprise Server 11 (OS: 32 bit; JVM: 32 bit)

### No Longer Supported

- Apple Mac OS X
- OpenSolaris
- Windows Vista
- Windows Server 2000

## Browser and External System Changes

This release of Java CAPS adds support for the following browsers and external systems:

- Firefox 3.5.2 for accessing all Java CAPS browser components
- Internet Explorer 8.0 for accessing all Java CAPS browser components
- The following LDAP servers for user management and for the LDAP Binding Component, LDAP Adapter, and Worklist Manager Service Engine):
  - Oracle Internet Directory 11.1.1.3
  - Oracle Virtual Directory 11.1.1.3
  - Open Directory Server 1.2
  - Microsoft Active Directory 2008
- The following database platforms for the Database Binding Component, IEP Service Engine, BPEL Service Engine, Worklist Manager Service Engine, Business Process Manager, both versions of Master Index, and corresponding database Adapters):
  - Oracle database 11g (11.2.0.2)
  - Microsoft SQL Server 2008 and 2008 R2 (not for all Service Engines)

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**Note** – For information on requirements and limitations, see [“Java CAPS 6.3 Components and Supported External Systems” in \*Planning for Oracle Java CAPS 6.3 Installation\*](#).

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- DB2 Universal Database 9.7 (Database Binding Component and DB2 Adapter only)
- Sybase 15 (Database Binding Component and Sybase Adapter only)
- WebSphere MQ 7.0.1.2 with fix APAR IC68653 for WebSphere MQ (version 5.3 is no longer supported)
- OpenSSO 8 patch 2 and later for the HTTP Binding Component (Access Manager 7.1.1 is no longer supported)
- Oracle Applications R12 for the Oracle Application Adapter

- DataDirect 4.2 driver for Oracle, SQL Server, and DB2 databases
- OpenSSO Web Services Security (WSS) Agent for the HTTP Adapter
- HIPAA version 5010 messaging
- Informix V11 for the Informix Adapter
- SWIFT 2010 message support and SWIFT 2010 certification
- SAP 6.0 for the SAP ALE and BAPI Adapters
- SAP JCo 3.0.2 64-bit
- Siebel 7.7 for the Siebel EAI Adapter
- WebLogic 11.1.1.3 and Oracle Advanced Queue 11.1.1.3
- UN/EDIFACT versions 3 and 4, Directory D.03A

## Password Changes

Java CAPS 6.3 no longer provides default administrator and master passwords for GlassFish server. You need to specify these passwords manually, adhering to Oracle security standards. The passwords must contain:

- Eight or more characters
- One or more numeric digits
- One or more lowercase characters
- One or more uppercase characters

For the Repository-based Java CAPS Installer and Enterprise Manager, the default user name and password remain the same (admin and adminadmin, respectively), but you should not use this default user in production. Instead, create a new user in User Management for production.

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**Note** – For AIX installations, you must use the previous master password **changeit** when installing Java CAPS. Due to this issue, the command-line installer cannot be used in AIX environments; you can install Java CAPS using the GUI or silent CLI installation.

After installing in AIX, you can change the master password. For more information about this issue and changing the password, see issue 6628170 at <http://download.oracle.com/docs/cd/E19159-01/820-3530/abpbc/index.html>.

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This change also means that the password file that was previously created during installation for the master password is no longer created. See Starting GlassFish from the NetBeans IDE for more information.



## Starting GlassFish from the NetBeans IDE

With the password changes above, the master password is no longer automatically saved. This means that when you start the GlassFish server from NetBeans, you need to specify the master password in order for the server to start. If you do not specify the password within a specific time, the startup process times out. You can save the master password for a domain, which eliminates the need to enter the password each time you start the server. This is not recommended for production environments.

To save the master password, run the `asadmin` command `change-master-password` with the `--savemasterpassword=true` option. For example:

```
asadmin> change-master-password --domain C:\JavaCAPS63\appserver\domains\  
--savemasterpassword=true domain1
```

## Installing and Upgrading

For this release, the names of the installation executable files have changed to include the name of the operating system. For example, the new name for the Windows file is `JavaCAPS-Windows.exe` and the name for the Solaris file is `JavaCAPS-Solaris.bin`.

There are two paths to upgrade the Repository-based Java CAPS components from previous versions of release 6. In the first method, you install Java CAPS 6.3, export all projects from the older release 6 environment, and then import them into the new 6.3 environment. In the second method, you install Java CAPS 6.3, install a patch to update the older release 6 Repository, and then connect to the older Repository from the Java CAPS 6.3 environment. With the second option, you have a side-by-side installation, but you do not use the new Repository. Instead you continue to use the existing upgraded Repository.

The patch to upgrade the Repository is included on your installation media in `patches/patches_m1.zip`. The patch file is named `6946084-01-REP.zip`. For full upgrade instructions, see [Upgrading to Oracle Java CAPS 6.3](#).

## Changes to the Default Domain

On the Servers window of the NetBeans IDE, the default domain created by default by the Java CAPS installation is no longer automatically added under the Servers node. It needs to be added manually. For information and instructions, see “[Adding the GlassFish Server to the NetBeans IDE](#)” in *Using the Oracle Java CAPS 6.3 Installation GUI*.

## Oracle WebLogic JMS and Advanced Queuing

This release includes support for Oracle WebLogic JMS and Advanced Queuing for Repository-based Java CAPS components. You can monitor and manage messages contained in WebLogic and Advanced Queuing topics and queues through the Enterprise Manager. For information on installing and configuring support for WebLogic JMS and Advanced Queuing, see *Using the Oracle Java CAPS 6.3 Installation GUI* or *Using the Oracle Java CAPS 6.3 Installation CLI*. You can either install support during the Java CAPS installation, or you can install it at a later time using `asadmin` commands.

Additional information for using JMSJCA with WebLogic and Advanced Queuing can be found in your Java CAPS installation at `JavaCAPS_Home\appserver\addons\caps\readme\sun-jms-adapter-readme.html`. Sample projects with instructions for integrating with both WebLogic JMS and Advanced Queuing are on the Java CAPS sample site, <http://java.net/projects/javacaps-samples/pages/Home>, under Oracle JMS.

## Changes and Enhancements to Java CAPS Components

The changes listed in the following sections provide enhanced functionality to the products or address issues in such a way that affects general usability of the components.

- “[JBI Component Changes and Enhancements](#)” on page 10
- “[Changes and Enhancements to Repository-Based Components](#)” on page 14

For a list of additional fixes to existing issues, see “[Issues Addressed in Java CAPS 6.3](#)” on page 18.

## JBI Component Changes and Enhancements

Java CAPS includes the following new JBI features and components in this release. In addition, GlassFish clustering is supported for JBI components in Java CAPS 6.3; clustering support does not extend to Repository-based applications.

### New JBI Components

The following components were added to Java CAPS for this release.

- **COBOL Copybook Encoder**  
This new component is a fixed-length field-based encoder that provides the tools you need to define and test COBOL Copybook encodings as well as provide runtime support for the encoders.
- **Email Binding Component**

This new component supports configuration and connection to email servers within a JBI environment, allowing email messages to be sent from and received by a Java CAPS application. It supports POP3, IMAP, and SMTP.

- **HL7 Binding Component**

This new component allows Java CAPS applications to establish and maintain connections with HL7 v2 messaging systems, manage message enveloping and routing, and perform message validations.

- **Rest Binding Component**

This new components provides external connectivity for REST over HTTP, which allows external systems to invoke RESTful web services hosted by Java CAPS and allows Java CAPS to invoke external RESTful web services.

- **POJO Server Engine**

This new component allows you to define business logic in Java (as Plain Old Java Objects) and then deploy those business objects in a Java CAPS application, providing a simple and flexible method for using Java in integration applications.

- **Worklist Manager Service Engine**

This new component allows you to define manual tasks to be inserted into an otherwise automated workflow, such as a BPEL process, and to then manage and monitor the handling of any generated tasks.

## **Discontinued JBI Components**

Support for the Data Mashup Service Engine is discontinued in Java CAPS 6.3.

## **Changes to Existing JBI Components**

The following sections describe changes to existing JBI components from the previous release of Java CAPS.

## Database Binding Component Enhancements

The following enhancements were made to the Database Binding Component for this release:

- The Database BC accepts timestamps in the XSD format (yyyy-MM-dd"Thh:mm:ss:SSS).

## BPEL Service Engine Enhancements

The following enhancements were made to the BPEL SE for this release:

- Exceptions defined in referenced resources can be selected from a fault name selector instead of needing to be typed in manually ([NetBeans Issue 173313](#)).
- The BPEL SE can initiate a transaction context (TX) even when the BPEL SE does not have persistence enabled. To support this, a new optional attribute named `atomicTxType` was added to the BPEL process element ([NetBeans Issue 169664](#)).
- A new Java function in the BPEL menu of the Mapper allows you to call the classes and methods of your project JAR files and referenced resources.
- Validation for the `doXSLTransform` function checks that the specified XSL file can be found ([NetBeans Issue 163856](#)).
- You can navigate to EJB modules from partner links in a BPEL process ([NetBeans Issue 124684](#)).
- Clicking on a referenced resource node brings up a dialog box that allows you to edit the resource ([NetBeans Issue 164161](#)).
- Application variables are supported with the BPEL SE.
- BPEL process can be dynamically invoked directly from another BPEL process without going through the HTTP BC.
- The BPEL SE has graphical support for configuring Normalized Message properties.
- The BPEL SE supports XML validation against the XSD file for BPEL 2.0 (CR 6802357).

## IEP Service Engine Enhancements

The following enhancements were made to the IEP SE for this release:

- Supports MySQL Enterprise Server 5.1.

## File Binding Component Enhancements

The following enhancements were made to the File BC for this release:

- Allows you to poll subdirectories, and provides a regular expression-based exclude mechanism.
- On-demand read is now supports file name patterns, regular expressions, reading subdirectories, and dynamically setting the file name. The expression-based exclude mechanism is available for on-demand reads as well.

## FTP Binding Component Enhancements

The following enhancements were made to the FTP BC for this release:

- Supports database-based synchronization for clustering. Previously, only file-based synchronization could be was available.

## HTTP Binding Component Enhancements

The following enhancements were made to the HTTP BC for this release:

- Allows you to insert application logic to change the protocol or payload messages before or after calling a service using JAX-WS handlers.
- Resolves multiple host names by allowing you to specify a list of alias names used to validate the hostname in an HTTP URL. This adds a new runtime property, `Allowed Hostname (Aliases)` for `localhost`.
- Supports connection timeout, read timeout, and hostname verifier settings for HTTP binding requests.
- Provides message tracking and nested diagnostic context logging support.
- Allows `?wsdl` queries to be disabled through a CASA/binding configuration.
- Supports optional SOAP header propagation.

## JMS Binding Component Enhancements

The following enhancements were made to the JMS BC for this release:

- Supports request/reply using BPEL correlation.
- The JMS JCA provides an option for interceptors, which adds the capability to the JMS BC. These can be defined globally or for a specific instance.

- JMS protocol validation was removed from the WSDL to support any JMS provider, including STCMS453. (6858958)
- Application variables for fields of the number datatype are supported.

## Scheduler Binding Component Enhancements

The following enhancements were made to the Scheduler BC for this release:

- Supports Catalog Resolver so WSDL files can be dragged into a BPEL project from a different project without exceptions.
- Supports the Redelivery On-Failure Suspend option.

## Changes and Enhancements to Repository–Based Components

Java CAPS includes the following changes and enhancements to repository-based components in this release.

### General

The following changes were made to general Java CAPS functionality:

- Previously if you copied an OTD used in a Java Collaboration Definition to a new location and then deleted the original OTD, the JCA could not resolve the OTD class names when it was reopened. Now if you copy and then delete an OTD used by a JCD, reopening the JCD brings up a dialog box that allows you to change the references to the OTD and repair the Collaboration. (6836357)

### Java CAPS JMS

The following changes were made to Java CAPS JMS components:

- The `stcmsctrlutil` command was modified to be able to hide the text you enter for the password. Previously, the password was only displayed in plain text. Now you can enter an asterisk (\*) for the `userpassword` option, and the utility will prompt you for the password when it runs. This password is hidden. (7012336)
- A new property, `STCMS.TRACE.RECOVERY` was added to the `stcms.default.properties` file to enable you to display in the log file the name of the DBS file being processed. This value is displayed in the log when the property is set to **True** and the logging level is set to **INFO**.
- The STCMS client now compares the size of a message with the DBS segment size that the STCMS server is using, and the client generates an exception if the message size is greater than the DBS segment size. (6785808)

- If you wanted to see the name of the DBS file being processed in the log files, you had to set the logging level to INFO. Now, you can set the `STCMS.Trace.Recovery` property to **true** in the startup properties file to include the DBS file name in the server log. (6911901)
- The `stcmsctrlutil.exe` utility now show whether a durable subscriber is currently connected to the server. (6912941)
- `JMSJCA.destination` is a new property on the inbound message wrapper that returns the destination object from which the message was read. This option is useful in cases such as WebSphere MQ when messages are read that do not return a valid value for `getJMSDestination()`. To get the destination, call `javax.jms.Message.getObjectProperty("JMSJCA.destination")`. (6902210)

## Adapters and Message Libraries

The following changes were made to Java CAPS Adapters:

- The HTTP Adapter includes methods to set read timeout and connect timeout properties on a per connection basis. The following methods are exposed for the HTTP client adapter: 6607433
  - `setConnectTimeout()`
  - `setReadTimeout()`
  - `getConnectTimeout()`
  - `getReadTimeout()`

This adds two properties to the HTTP External System HTTP Settings Properties in the Environment: `Connect Timeout` and `Read Timeout`.

- In the `DriverProperties` property for outbound Oracle External Systems (configured in the Environment properties), `java.util.Properties` parameters are now represented by a comma-separated list of name and value pairs. The default delimiter is still the pound sign (`#`), as shown below.

```
setmethodName#property1=value1,property2=value2,property3=value3##
```

Below is an actual example of setting connection parameters:

```
setConnectionProperties#oracle.jdbc.ReadTimeout=30000,
oracle.net.READ_TIMEOUT=30000,oracle.net.CONNECT_TIMEOUT=30000##
```

(6958635)

- A new property, `Use Initial Directory As Default`, was added to the Batch SFTP External System properties in the Environment. Selecting this property causes the external system to use the initial directory on login as the default directory instead of the FTP default directory. This can help prevent exceptions thrown when a user does not have permissions on the FTP default directory. (6899758)

## Business Process Manager

The following issues were addressed for Business Process Manager in this release:

- The Worklist Manager for user activities can be used with Oracle Internet Directory and Oracle Virtual Directory LDAP servers.
- Business Process Manager supports SQL Server 2008.

## New Replicate Repository Utility

This release includes a command-line utility that copies the entire Java CAPS repository (including all installed products), and allows the host name and port numbers to be changed. The utility is named `replicate.bat` for Windows and `replicate.sh` for UNIX. The utility is intended to be executed on the computer to which you want the repository moved (the target server). The computer from which the repository is being copied is called the source server.

This section provides instructions for copying an entire repository from a source machine to a target machine. Perform the steps on the source machine first, followed by the steps for the target machine.

### ▼ To Replicate the Repository

#### 1 Do the following on the source server:

- a. Start the repository.
- b. Change to the directory where the replicate utility (`replicate.bat` or `replicate.sh`) is located (`JavaCAPS_Home\repository\repository\util`).
- c. Create a backup of the source repository by running one of the following commands, replacing the parameters with actual values:
  - For Windows: `replicate.bat export usernamepassword RepositoryBackupFileName`
  - For UNIX: `replicate.sh export usernamepassword RepositoryBackupFileName`

#### 2 Do the following on the target server:

- a. Ensure that the Java CAPS Repository CD1 (or a copy of its contents) is available on the target server.

The location of the installation files is a required parameter for the replicate utility.

- b. Copy the following files from the source server to the target server:

- `JavaCAPS_Homerepository\repository\util\replicate.bat` (on Windows) or `JavaCAPS_Homerepository/repository/util/replicate.sh` (on UNIX)
- `JavaCAPS_Homerepositor\repository\util\repositoryutil\com.stc.repositoryutil.jar`



- The backup file created above from running the replicate utility on the source machine. If you do not want to copy the files from the source machine to the target machine, you can create a shared network directory on the target machine that points to the respective directories on the source machine.
- c. **Navigate to *JavaCAPS\_Home\install\docs* and open either *unix-install.properties* or *win-install.properties*, depending on your operating system.**
- d. **Modify the configuration settings for your installation.**
- CHOSEN\_INSTALL\_FEATURE must be set to Repository.
  - The following properties must be configured: USER\_JDK\_HOME, USER\_INSTALL\_DIR, REPOSITORY\_NAME, and REPOSITORY\_ADMIN\_PORT.

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**Note** – For Windows repository replication, the USER\_JDK\_HOME and USER\_INSTALL\_DIR directory values must contain double backslash characters after the drive designation (for example, C:\\JavaCAPS).

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- e. **Save and close the file.**
- f. **Change to the directory where the replicate utility is located.**
- g. **Start the replicate utility by running one of the following commands:**
- For Windows: `replicate.bat import RepositoryImagePath BackupFile RepositoryPropertiesFile`
  - For UNIX: `replicate.sh import RepositoryImagePath BackupFile RepositoryPropertiesFile`

where:

- *RepositoryImagePath* is the location of the Java CAPS installation file on the Java CAPS Repository CD1
- *RepositoryPropertiesFile* is the name and location of the install properties file
- *BackupFile* is the location of the backup file created by running the replicate utility on the source machine

The contents of the original repository are now available in the location specified by **TargetRepositoryPath**. The target repository can be started by running the repository startup command (`startserver.bat` for Windows or `startserver.sh` for UNIX) from the TargetRepositoryPath directory.

## New Utility for Listing Repository Objects

This release includes a command-line utility, `listObjects`, that lists the Repository-based branches, projects, and environments stored in the Java CAPS Repository. This utility is packaged as a batch file for Windows and an SH file for UNIX. It is located in the `JavaCAPS_Home\repository\repository\util` directory. The syntax of the command is:

```
listObject.bat username password branch_name mode
```

or

```
listObject.sh username password branch_name mode
```

Where:

- *username* is the administrator user name used to log in to the Repository (by default, **admin**)
- *password* is the password associated with the above user (by default, **adminadmin**)
- *branch\_name* is the name of the branch containing the objects you want to list
- *mode* is an indicator of the objects to list. Use one of the following mode:

- **-lb** lists all branches in the Repository. For example:

```
listObject admin adminadmin "" -lb
```

- **-lp** lists all projects in a branch. For example:

```
listObject admin adminadmin TESTING -lp
```

- **-le** lists all environments in a branch. For example:

```
listObject admin adminadmin TESTING -le
```

## Issues Addressed in Java CAPS 6.3

The following sections list the issues addressed by this Java CAPS release. The repository-based issues are listed in this document; links are provided for the JBI issues.

- [“JBI Issues Addressed” on page 18](#)
- [“Repository-Based Issues Addressed” on page 22](#)
- [“Master Data Management Issues Addressed” on page 29](#)

## JBI Issues Addressed

Numerous updates were made to the JBI design-time and runtime components for this release, and any changes made for GlassFish ESB 2.2 are also included in the JBI components for Java CAPS. The following table lists the issues that were addressed for JBI components for the Java CAPS 6.3 release (it does not list GlassFish ESB 2.2. issues):

Issue ID	Description
6799741	When using SQL Server 2005 drivers to run a stored procedure against a SQL Server 2000 instance an error is thrown stating that there are too many arguments.
6858446	The HTTP BC generates the following error message while it is parsing text information: Content is not allowed in prolog.
6891237	An Oracle stored procedure with an uninitialized Ref Cursor causes a generic system fault with no error information for the Database Binding Component. This fix enhances the error message so you can find the source.
6924688	When logging is set to finest, the BPEL Service Engine generates an error for inbound messages if the row contains a null value.
6948255	The HL7 Encoder unmarshals data incorrectly when the first instance of the data is unavailable for an optional and repeating node.
6902424	When restarting a JBI application containing the HTTP Binding Component from the Admin Console, a SEVERE exception occurs in the server log that causes the application to fail. This occurs because the map of WSDL and XSD files maintained by the HTTP Binding Component was not being cleaned up on shutdown.
6912029	If the JMQ broker connected to a JBI application in a high-availability cluster is restarted, the JMS Binding Component continually throws a resource exception and the application stops responding until the JMS Binding Component is restarted.
6912453	When multiple Composite Applications use the same endpoints, the applications are broken when one of the applications is shut down or undeployed.
6990067	The thread count grows too large when using Access Manager authentication with the HTTP Binding Component.
6958709	When using the File Binding Component to write files with the file name being set dynamically, the binding component does not release the lock files, which results in the following error: Too many files open.
6912567	When the CLOB parameter in a stored procedure is null, the Database Binding Component throws an error and does not process the return data.
6926707	You cannot dynamically change the JNDI name used by the Database Binding Component when persistence is enabled.
6882656	The BPEL persistence is enabled, stored procedures cannot be executed.
6929931	Setting the Quality of Service descriptions for the JMS Binding Component in a Composite Application causes a null pointer exception that will not allow the application to be deployed.
6904529	The LDAP Binding Component does not close connections properly, which causes an exception stating that a connection cannot be made to the LDAP server.
6805952	The FTP Binding Component put method does not work with an abstract WSDL file.

Issue ID	Description
6931424	The Database Binding Component throws an IMP_MXCH_BAD_STATUS exception after GlassFish is restarted.
6932641	When an atomic business process with persistence enabled invokes a Database Binding Component, the insert and update operations are not committed to the database.
6858514	The FTP Binding Component does not put files when explicit SSL is used.
6822099	The WSDL file generated by the HTTP Binding Component with SSL enabled uses the incorrect port number variable. It uses the HTTP port instead of the HTTPS port.
6868522 6855396	SQL Server and DB2 stored procedure ResultSets show 0 and cannot be edited in the WSDL Wizard.
6884986	The LDAP Binding Component removes all uniqueMember attributes even though only one is specified in the update.
6914197	The HTTP Binding Component fails with a namespace rebinding error when processing a SOAP fault message.
6917137	When an HTTP Binding Component project is deployed on a GlassFish cluster, the HTTP Binding Component deployed to a Solaris cluster instance loses its port configuration when the instance is restarted.
6826999	The Database Binding Component throws an exception when calling an Oracle function.
6873575	The target namespace specified when generating a JDBC WSDL file for the Database Binding Component is ignored.
6863722	An atomic business process that uses JMS and database stored procedures throws a runtime exception stating that the business process cannot be found.
6965048	The inbound message variable normalized message properties cannot be set in a business process for the FTP Binding Component's On Demand Receive Transfer.
6936780	The HTTP Binding Component throws a null pointer exception when optional elements are included in an incoming SOAP request.
6984648	A null pointer exception occurs when you add HL7 Binding Component concrete bindings to an abstract WSDL file.
6993146	The Schedule Binding Component fails to start in a clustered instance.
6933332	The value of the org.glassfish.opensb.databasebc.connection.jndiname property for the Database Binding Component is not maintained if other properties of the same variable are updated in a subsequent Assign operation.
7012817	Starting an FTP Binding Component application on a clustered instance fails when using database token persistence. This occurs if the applications has already been deployed and undeployed.

Issue ID	Description
6906782	The domain takes a long time to start when multiple service unites are combined into one Service Assembly.
6924178 6956846	When using the BPEL Service Engine to initiate a transaction context (using <code>sctx:atomic="yes"</code> and <code>sctx:atomicTxType="Required"</code> ), the following error occurs: Error attempting to suspend transaction.
6880728	When a business process is atomic and persistence and monitoring are enabled, a transaction rollback cannot occur and it throws an exception.
6893028	When you deploy a Composite Application that references XSD files from other projects, the following exception occurs: Failed to parse xsd document.
6909318	Any error of the type <code>java.lang.Error</code> causes the BPEL thread to terminate.
6905890	When using a business process to invoke an EJB web service that imports nested XSD files, an XML stream exception occurs.
6958243	If any of the required tables exist when you deploy an application using the IEP Service Engine, the deployment fails.
6930661	The BPEL Service Engine intermittently throws a <code>ConcurrentModificationException</code> when starting up in a high volume environment.
6881048	A memory leak occurs during runtime when a business process contains both Event and Fault handlers.
7002374	When an XSLT service is generated from a WSDL file in an XSLT Service Engine project and the generated XSL file is deleted, the WSDL service cannot be reused for a new XSLT service.
6933051	Links between JBI modules and external modules disappear when the Composite Application is built.
6921297	When building a project NetBeans on Linux, the following error occurs: "Specify a valid schema element value for element attribute."
6988972	For the HTTP Binding Component and BPEL Service Engine, password application variables are transmitted incorrectly.
6940225	Duplicate rollback calls are made by the BPEL Service Engine, causing an illegal state exception.
6945646	Deployment of a Composite Application with database and EJB components fails on UNIX.
6883496	The build fails for a Composite Application when the Chinese character set is enabled.
6915898	The an index out of bounds exception occurs when running the <code>asadmin</code> command <code>import-caps-configuration</code> function.
7012673	When deployment of a project containing an FTP Binding Component fails, it starts incorrectly on the second attempt.

Issue ID	Description
6900585	A BPEL Service Engine application that also uses the JMS Binding Component stops running when there is a BPEL exception and JMS is on a high-availability cluster.
693351	Links between a JBI module and an external module in a Service Assembly disappear when the Service Assembly is built in the CASA Editor.

## Repository-Based Issues Addressed

The following table lists and provides brief descriptions for the issues addressed for the repository-based components for this release.

Issue ID	Description
6821073	The Command Line Branch Installer Tool needs to be added to version 6.3.
6849967	Business Process Manager stops processing if the persistence database runs out of table space.
6992221	If a Microsoft Active Directory username includes a comma, Worklist Manager tasks cannot be checked out by that account.
6983854	An LDAP connection exception is thrown when using SSL with LDAP for the Worklist Manager.
6853613	In Master Index (Repository) and Patient Master Index, merging two local IDs fails.
6809034	A database table cannot be both the source table and target table in a Data Integrator collaboration.
6874815	The Batch FTP Adapter does not pick up files with spaces in their names when pattern matching is specified using '^'.
6907905	When an idle timeout occurs for the TCP/IP HL7 Adapter, the server log fills with WARNING messages. The logging level should be INFO for these occurrences.
6914370	After a network outage is restored and processing continues for the SQL Server Adapter, exceptions and alerts continue to be generated until the adapter is triggered again.
6844124	The MQSeries Adapter logs SEVERE error messages in the server log when the Collaboration successfully publishes messages to multiple queues.
6861407	When an MQSeries Adapter project that does not use SSL is deployed along with an MQSeries Adapter project that does use SSL, the non-SSL project fails with an MQRC_JSSE_ERROR.
6772542	Connections to JDBC databases intermittently experience long delays.
6915145	When the logging level is set to INFO, external system connection messages should be suppressed. They should only be logged when the level is set to FINE.

Issue ID	Description
6762711	The Batch FTP Adapter password is displayed in clear text in the log file.
6885274	When you use the <code>asadmin</code> command <code>extract-caps-application-configuration</code> on a project that contains an IMS Adapter, the properties file for the IMS External System is not formatted correctly.
6947839	Batch SFTP and FTP over SSL require a mechanism for copying filenames on put and get operation. This fix allows the expansion of <code>%f</code> expressions to the original filename for get and put operations.
6889203	A Java Collaboration Definition with outbound WSDL OTDs throws a <code>NoClassDefFound</code> error on Linux.
6776468	The Batch FTP Adapter throws an <code>ArrayIndexOutOfBoundsException</code> when <code>getProvider().listFileNames(java.lang.String dir, boolean isDirRegex, java.lang.String file, boolean isFileRegex)</code> is run and the target directory contains no files.
6850827	When the MQ Series Adapter opens a remote queue, it reports the following warning: <code>MQJE001: Completion Code 2, Reason 2045</code> .
6887165	The HTTP Adapter is unable to get Japanese characters.
6971345	The FTP Adapter's <code>get()</code> method lists all files even though a file name and directory are specified.
6920632 6981162	Duplicates occur when delivering IDOCs to a SAP system using <code>RFC_IDOC_INBOUND_ASYNCHRONOUS</code> and the connection is reset.
6887556	When Resume Read is enabled in the Batch Adapter, <code>BatchRecord.finish()</code> throws an exception.
6961097	When using the SQL Server Adapter, the log file is filled with multiple occurrences of a SEVERE connector exception.
6965779	The e-Mail Adapter does not work with POP3 when SSL is enabled.
6993328	When inserting an oversized string into a DB2 database using a JDBC OTD, <code>executeBatch()</code> does not throw the expected exception. This is resolved by using the latest <code>DataDirect</code> drivers.
6993590	No alert is generated is the connection to the database is no longer available while performing a database operation for SQL Server.
6868043	The Oracle inbound adapter does not use the Environment or Connectivity Map overrides once they have been changed in the GlassFish Admin Console.
6876480	When the Number of RFC Servers to Create for the SAP BAPI Adapter is greater than 1 and the maximum connections is greater than 1, errors occur suggesting file contention on the TID file.
6952672	LDAP URL does not work in the Unified JMS Resource Adapter.

Issue ID	Description
7011989	When you specify Use Fully-Qualified Name for stored procedures in a Sybase OTD, an error occurs at runtime stating that the database does not exist.
6965771	When using the HIPAA 5010 OTD, the runtime application does not loop through repeating segments, such as 2110C EQ.
6890706	When the log level of the STCMS queue manager is increased to INFO, the queue manager stops responding and does not allow messages to be published or consumed.
6840396	If you have multiple projects with a dependency on a common project and you delete and re-import the common project, building the EAR files for the projects with the dependency fails with the following error: Code generation error at = initializingnull".
6841373	Deployment profile snapshots cannot be retrieved, so they cannot be built and deployed.
6971001	If you modify an OTD that was created by a SEF file by modifying the SEF file and rebuilding the OTD, missing symbol exceptions occur when rebuilding the project.
6610901	WSDL file references to xsd:group are not supported by JAX RPC.
6876925	If a STCMS queue has message selector receivers and one of the selectors never receives any messages, over time the pending requests grow and performance decreases.
6584754	When accessing the GlassFish Admin Console from Enterprise Manager, an alert appears stating that some items are not secure. If you click OK on the alert dialog box, the lock symbol on the browser disappears, indicating that the entire session is not secure.
6856794	After upgrading from version 5.1.3, a SOAP request fails with the following web service exception: Invalid xsi:type qname: 'xsd:string'.
6860788	New methods, isNil() and setNil(), are needed for FCX OTDs.
6893686	JMS messages are being lost or not being rolled back properly using JBoss Message Server and JMS JCA.
6895387	When using the JMS JCA in transacted mode, any exceptions thrown from the send() method in the Collaboration are not caught, the Collaboration consumes the message, and the message is lost.
6832147	You currently cannot use WebSphere MQ client-site security exits in Java CAPS.
6733481	Repository-based projects cannot be imported if they include sub-projects that use variables with the same names.
6957538	The marshal and unmarshal methods in XSD OTDs strip spaces during processing.
6815588	A concurrent modification exception is thrown intermittently when opening a Java Collaboration Definition. This is most likely to occur when opening a large JCD that uses a large number of methods.



Issue ID	Description
6912715	During STCMS server recovery, if a message is manually deleted and the queue to which it belonged is also deleted, the server exits with a segmentation violation.
6732364	A security exception appears in the server log files with the message Access denied for user. When this occurs, you have to restart the server to recover.
6877742	SOAP responses that contain a closed square bracket (]) intermittently throw the exception <code>com.stc.codegen.framework.runtime.RequestException: fillbuf</code> .
6881762	Logical hierarchy loop repetition is not working for certain conditions in the 276 and 277 segments of the HIPAA version 5010 OTDs.
6897403	In a Java Collaboration Definition, if you right-click on an OTD and click Select Method to Call, there is no way to close the method browser window without selecting a method. You then need to delete the method from the code if you do not want to use it.
6894009	A null pointer exception occurs when handling SOAP faults if the detail element is not present.
6913519	Uninstalling a Java CAPS patch fails after rollback.
6927866	When you select the SNMP Agent on the Enterprise Manager navigation panel and then click the Alerts tab, an internal server error occurs.
6940240	The actual JMS request/reply timeout is twice the configured value for the timeout period.
6943079	The <code>stcmsctrlutil.exe</code> utility cannot be used to republish messages.
6959474	An array store exception is thrown when you open a Java Collaboration Definition that contains a sub-Collaboration that in turn contains an Adapter.
6860367	When the JMS JCA Unified Resource Adapter's redelivery handling feature is configured to move messages to a dead letter queue, the following error is logged several times: <code>sendMessage on onContent() failed</code> . The message is still moved to the dead letter queue correctly.
6881920	The OTD tester is unable to populate the data for 2200D and 2200E REF segments using the 276/277 OTD of the HIPAA 5010 message library.
6881921	The SNMP Agent does not send traps.
6887473	The Alert Agent does not close connections after sending alerts to Java Message Queue. Eventually the producer limit is reached and an Enterprise Manager restart is required.
6898685	The Repository Version History dialog box uses U.S. date formats instead of the localized date format.
6898295	The HL7 OTD throws an error when accessing repeating fields containing null values.

Issue ID	Description
6929383	<p>Multiple issues addressed with messages getting stuck for STCMS, including:</p> <ul style="list-style-type: none"> <li>■ Under certain timing conditions, a message is skipped and not sent until the system is restarted.</li> <li>■ Under a heavy volume, a reference remains on a DBS file when it should be cleared.</li> <li>■ Unsubscribing does not clear bits.</li> <li>■ ChangeMessage might incorrectly hold a reference on a fast computer.</li> <li>■ Iterator issues.</li> </ul>
6835120	Change to properties or names in a sub-Collaboration are not recognized by the calling Collaboration.
6883311	When you copy and paste a project that includes an OTD with XSD references, the XSD references are not updated in the new location.
6847434	Java CAPS is unable to process a SOAP fault message when invoking an external web service through a Java Collaboration Definition.
6865457	The HTTPS handshake for a web service client project fails to report any errors for authentication issues when connecting to a secure web service server set up for server authentication.
6792259	The Business Process Manager fails to parse the SOAPAction header of an incoming web service request when the value is missing double quotes.
6765155	Building a project fails when using an external WSDL file.
6886276	In Enterprise Manager, the Topic message count and the number of messages displayed for the Topic do not agree.
6914403	After a network outage in a system that connects to an ICAN SRE queue using JMS JCA, the receiver throws multiple XAException exceptions.
6945237	Expired messages can be republished from the JMS journal. This should cause an error.
6956149	When an alias's remote queue destination is changed while the MQ Series Adapter is running, several MQ errors and related Java exceptions are thrown.
6959458	Exceptions that are thrown by a Java Collaboration Definition but are not handled in the business process lead to rollback failures and message loss.
6868347	SOAP message generated by a Java CAPS web service client is not consumed by the PeopleSoft web service due to namespace prefix issues.
6878027	Applications using the SNA Adapter fail intermittently.
6932554	STCMS throws the following error: STCms: Read() : found an incomplete message.
6957540	Importing a version 5.0.5 with Rollup 7 project and environment fails.
6697747	A project fails to build when a web service has a field with a data type of datet ime.

Issue ID	Description
6869556	In Enterprise Manager, the web service client status indicates the client is down even though it is running.
6856765	Building a business process project fails when it invoked a secured web service.
6879333	When a deployed project includes a Collaboration to Collaboration link and it is monitored through Enterprise Manager, the server log reports severe Instance Not Found error messages.
6882769	When there are recursive connections in a Connectivity Map (for example, Queue1 -> Service -> Queue1) as well as non-recursive connections, the services are not displayed in Enterprise Manager or exposed through the management API.
6849813	When you import a project that has a dependency on another project and the project on which it depends already exists in the Repository but has been changed, the import fails.
6863213	The XSD OTD Wizard throws a null pointer exception when using multiple imports.
6822976	The Oracle Adapter cannot parse complex views surrounded by double quotes for spaced fields.
6845599	When you use a password environment constant, the value is exposed in clear text in the deployment profile mapping.
6876585	STCMS temporary queues might not be cleaned up properly at runtime.
6898703	When a Collaboration calls another Collaboration, it does not handle exceptions properly when the web service Collaboration cannot retrieve the root node from a non-XML message. It throws a container lever exception and continues resending the message.
6918605	For XA business processes, rolling back a transaction fails if the reason for the rollback is not in a Java Collaboration Definition.
6935921	The number of DBS files grows to be too large.
6888480	The OTD tester fails to parse the data at loop 2000B for the x12_005010X279_270_EligCoveOrBeneInqu_Full OTD with an unmarshalling error.
6902343	The complete SOAP address is not automatically created when the WSDL document is created.
6901307	The OTD tester cannot open OTDs generated from the SEF Wizard.
6933509	It is not possible to import a WSDL document that has XSD references as HTTP URI or web references.
6809139	The Custom Encoder dialog box shows garbled Japanese characters.
6883302	When a project's OTD references an XSD and that project is exported and re-imported into Java CAPS, the reference remains to the original project if it still exists in the Repository. The reference should be in the location of the newly imported project.

Issue ID	Description
6821126	When a project is deployed to two domains in the same environment, the EAR file for the second domain does not include the file <code>AssistantService Bean.jar</code> , which leads to a naming exception at runtime.
6951669	The time required to commit changes to a Java Collaboration Definition that includes an HL7 OTD increases with each commit.
6966477	Enterprise Manager does not release connections to ports to the application server instance after the application server is stopped.
6858556	When NetBeans finds a class in multiple locations, it does not load any class, resulting in null pointer exceptions.
6975060	Unmarshal fails for a HIPAA 5010 270 data file with values FA and 80 in NM101 of 2100B.
6992880	If a message contains more than one line of content, the Enterprise Manager does not display the entire message because the scrollbar is disabled.
6904935	If you try to apply a patch to Java CAPS but enter an incorrect username or password, the patch fails and you cannot reapply it.
6758022	Using the <code>snmpwalk</code> command to query the SNMP Agent fails.
6909820	An error occurs intermittently when opening Java Collaboration Definitions due to methods that were not found.
6933103	Creating an XSD OTD results in the following error, even though the XSD is valid: An element declaration with the given name already exists in this scope.
6909039	A Connectivity Map link throws an exception when a JCD is implemented as an external service using an XSD OTD generated from an XSD file that contains a UTF-8 BOM (byte order mark).
6919345	When a project is built with no changes applied to the deployment profile, a new version of the deployment profile is created in the Repository anyway and its version number is incremented.
6936608	Queue time ordering for STCMS ( <code>STCMS.TimeDependency</code> ) is not considered for a queue that already exists when the server is restarted if the <code>STCMS.Queue.Mode</code> is empty.
6970390	If a web service implements a WSDL document that imports an XSD file, it is not possible to brows the XSD from a web browser.
6909678	In SOAP requests that have XML escape characters within attributes, Java CAPS double-escapes the escape characters making the data incorrect.
6810985	Invoking an external web service fails when the response contains a datetime element with an empty value.
6807530	Nullable elements cannot be sent to a web service deployed to the Sun Java System Application Server.

Issue ID	Description
6878765	The database reference counter is incorrectly incremented when changing the message payload, which leaves an invalid reference that prevents log compaction.
6964569	When an XSD OTD has an element named LocalName, a method is generated that is a duplicate of an internal method, resulting in several severe errors.
7000530	An exception occurs when you try to delete a Java MQ message.
6874846	A custom alert created using the Alerter class does not include all the values when the alert is viewed from Enterprise Manager.
6917247	The web service <code>invoke()</code> throws an exception when the web service returns a fault.
6928986	The Alert Agent does not filter alerts based on the component being monitored in Enterprise Manager.
6981547	After a WSDL document with an HTTPS protocol is published to the UDDI server, the protocol changes to HTTP.
7002403	The documentation links from the Suite Installer and Enterprise Manager lead to obsolete documentation sites.
6993962	Not all dynamic XSD OTD methods are added when processing OTD bean information.
7002881	Log messages do not appear in Enterprise Manager for the individual components of a deployed project.
6975426	Enterprise Manager does not show the project components under an application server domain when the application server is started after Enterprise Manager is started.
7012101	Trying to route alerts using the SNMP channel from the Alert Agent to the SNMP Agent fails with a <code>RuntimeMBeanException</code> .
6797276	<p>Marshalling data to bytes for user-defined OTDs fails when the input data is in ISO-8859-2 encoded format. This fix makes the method <code>setPostCoding(String code)</code> available in the Collaboration. This method sets the encoding of the output data.</p> <p>For this change to take effect in an existing or imported OTD, you need to modify and save the OTD. You can then reverse the change if it was not necessary and save the OTD again. Open the Collaboration calling the OTD and validate the Collaboration.</p>

## Master Data Management Issues Addressed

The following table lists and provides brief descriptions for the issues addressed for the JBI-based Master Data Management components:

Issue ID	Description
6807504	The survivor calculator is using the create date instead of the latest update date to evaluate the MostRecentModified value.
6707997	The <code>cluster-truncate.sql</code> script of the Initial Bulk Match and Load tool does not remove the tables in a SQL Server database.
6887542	In high-volume loads, the Data Integrator Service Engine does not commit all records to a SQL Server database.
7012078	In the command line report client for Master Index, the Assumed Match report generates a <code>java.lang.IndexOutOfBoundsException</code> and the report does not appear as configured.

## Known Issues in Java CAPS 6.3

The following sections list and describe the known issues in this release. Workarounds are also documented where applicable. In the following sections, links are provided to issues that originated in the OpenESB project, and “CR” refers to the change request number for an issue.

### Known Issues for Adapters and Message Libraries

The following are known issues for Java CAPS Adapters and Message Libraries:

- CR 6651300

Due to a driver change, the `getUpdateCount()` method might return a negative value, which is a change from previous behavior.

- CR 6689956

For database Adapters, a codegen error occurs when “PS” is used as the name for a prepared statement. This occurs because a variable named PS is initialized while generated the OTD classes.

To work around this issue, change the name of any prepared statements using PS in the name.

- For the SWIFT 2010 message type mt330 and the message types that have changed between previous versions and 2010, you need to change your Collaborations to adjust for changes in node names and other structural changes.

For example, with mt330 types, if the input data has a Currency node with an optional [N](sign), change the Collaboration that handles the data using the following logic (where `AmounttobeSettled1` is for positive data and `AmounttobeSettled2` is for negative data):

```
if (InData >= 0) {
    AmounttobeSettled.AmounttobeSettled1 = InData;
}
else {
```

```

    AmounttobeSettled.AmounttobeSettled2 = InData;
}

```

- The features and limitations present in the SWIFT 2009 Message Library are carried over into the SWIFT 2010 Message Library.
- CR 6946393

The SEF OTD Wizard does not create the proper hierarchical structure from a HIPAA version 5010 270 SEF file.

To work around this issue, use the 270 segment provided in the HIPAA Message Library.
- CR 7024428

When you develop a new adapter using the Adapter Development Kit and that adapter relies on any third-party library files, you need to do the following before you can use the new adapter in runtime.

  1. Stop the application server.
  2. Copy the library files to *JavaCAPS\_Home\appserver\lib* directory.
  3. Restart the application server.
  4. Redeploy the project.
- CR 7003586

When you delete an attribute from the Client Interface tab of the Adapter Development Kit, and then create a new attribute with the same name without exiting the ADK, you cannot create the new attribute.

To work around this issue, exit and then restart the ADK. You can then create the new attribute.
- CR 7011947

When you specify Use Fully-Qualified Name for stored procedures in a SQL Server OTD, an error occurs at runtime stating that the database does not exist.

To work around this issue, do not use fully-qualified names for stored procedures with SQL Server.
- CR 6989630 and 7003146

The SAP routing string is not retrieved from the adapter's configuration at runtime.
- CR 6690645

The Java Collaboration Definition in the HL7 sample project, *prjHL7Inbound*, contains an error that alters the functioning of the Validate MSH such that when you set the property to false, the `validateHL7Message` method always returns true.

To work around this issue, locate the following lines in the `validateHL7Message` method definition in the Collaboration:

```

if (!validateData) {
    validate = true;
}

```

Move the above lines to the end of the previous `else` statement.

- CR 6676202

If you import a 5.1.0 project that contains an Oracle Adapter (eWay) along with its associated Environment, the Environment Properties window for the External System does not list the Outbound non-Transaction properties. This occurs because release 5.1.0 did not support non-transactional messaging.

To work around this issue, create and configure a new Oracle External System in the imported Environment.

- CR 6702711

The MSMQ Adapter implemented the connection pooling feature, which made changes to the template and added properties to the external system.

If you import and build MSMQ projects from Java CAPS 5.1.3 and earlier, you need to open the environment properties and Connectivity Map properties in order to build the project.

- CR 6674397

The database table locks if the application server goes down during the middle of an XA Transaction.

To work around this issue, restart the database to release the lock.

- CR 6697220

There is no LDAP support for inbound configuration of HTTP, Siebel, and PeopleSoft Adapters.

- CR 6779560

The HL7 V3 functionality is disabled from use in HL7 JCA-based EJBs.

- CR 6854684

The Oracle Adapter must be installed before installing the Oracle Applications Adapter to ensure the correct JAR files are installed. Note that the Oracle Adapter is installed in the standard Java CAPS installation.

- CR 6876283

The Adapter Development Kit does not support creating Global RAR (JCA Adapters).

- eWays created using the 5.1.x version of the eWay Development Kit need to be recreated in Java CAPS 6.x using the Adapter Development Kit.

## Known Issues for the BPEL Service Engine

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**Note** – For BPEL SE stop and restart issues, see [“Known JBI Management Issues”](#) on page 48.

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The following are known issues for the BPEL Service Engine:

- CR 7007007  
 When running NetBeans using a Gnome desktop, the icons on the BPEL Mapper might not display all of the icons.  
 To work around this issue, add the following option to `JavaCAPS_Home\netbeans\etc\netbeans.conf`:  

```
--laf javax.swing.plaf.metal.MetalLookAndFeel
```
- [NetBeans Issue 148288](http://www.netbeans.org/issues/show_bug.cgi?id=148288) ([http://www.netbeans.org/issues/show\\_bug.cgi?id=148288](http://www.netbeans.org/issues/show_bug.cgi?id=148288))  
 If a BPEL project is deleted using the Delete Source option and a new project is then created that reuses the same name, the newly created project's Properties window cannot be opened.  
 To work around this issue, stop and then restart the NetBeans IDE.
- The BPEL Service Engine only creates connection pools and data sources for the Derby database. This functionality is available to assist developers and is not available for other databases or in a cluster. The BPEL Service Engine does create the persistence tables automatically for all supported databases, but only in standalone mode; this feature is not available in cluster mode. If you create connection pools, data sources, and tables before you install the BPEL Service Engine, it is possible to install the component with persistence enabled. Otherwise, installing to the cluster will fail.  
 To work around the issue of tables not being automatically created, you can create the tables in standalone mode and then add the BPEL SE to the cluster.
- When an optional node is missing in the input message, an `invalidVariable` exception is thrown. This should not occur since the node is not required. This is due to an issue with BPEL case and message variables of the schema type.

## Known Issues for Composite Page Designer

The following is a known issue for the Composite Page Designer:

- CR 6624231  
 A user-generated portlet for a project found in the tutorial operates when deployed on portal server in the application server web container (using a Solaris 10 x86 zone), but it does not render properly in Firefox.  
 To work around this issue, change the portlet to thin rather than thick. This will not fix the problem entirely but will make it easier to view.

## Known Issues for the Data Integrator Service Engine

The following are known issues for the Java CAPS Data Integrator Service Engine:

- CR 6705642

The purge and selection criteria in the Collaboration Monitor do not work.

- There is a compatibility issue with existing eTL/Data Integrator projects (Modern) from previous Java CAPS releases that are migrated into Java CAPS 6.3. To resolve this issue, you need to update the `build-impl.xml` file for each project. The file is located in `ProjectHome/nbproject`. Add the following two entries for each project:

```
include name="org-openide-io.jar"/
include name="org.openide-explorer.jar"/
```

- CR 6681744

Importing eTL 5.1.x projects into Java CAPS 6 using a command line results in an exception.

When importing 5.1.x projects, set the `NB_HOME`, `DB_DRIVERS_HOME`, `ETL_MIGRATION_CLASSPATH` and `DB_DRIVER_PATH` variables as shown below.

Exceptions still persist if the eTL collaborations contain database tables. There are no issues when flat files are used. To work around the database table issue, restart the repository, and then rerun the import command. Alternatively, import the project using the NetBeans GUI.

```
set NB_HOME=C:/JavaCAPS6/netbeans
set DB_DRIVERS_HOME=C:/JavaCAPS6/.netbeans/caps/modules/ext
set ETL_MIGRATION_CLASSPATH=
    %NB_HOME%/ide9/modules/org-netbeans-modules-project-ant.jar;

%NB_HOME%/ide9/modules/org-netbeans-modules-projectuiapi.jar;
%NB_HOME%/ide9/modules/org-netbeans-modules-projectapi.jar;
%NB_HOME%/platform8\lib\org-openide-util.jar;
%NB_HOME%/soa2/modules/org-netbeans-modules-etl-editor.jar;
%NB_HOME%/soa2/modules/org-netbeans-modules-etl-project.jar;
%NB_HOME%/platform8\modules\org-openide-dialogs.jar;
%NB_HOME%/platform8\core\org-openide-fileSystems.jar;
%NB_HOME%/ide9\modules\org-netbeans-modules-db.jar;
%NB_HOME%/platform8\modules\org-openide-nodes.jar;
%NB_HOME%/platform8\modules\org-openide-text.jar;
%NB_HOME%/xml2\modules\org-netbeans-modules-xml-validation.jar;
%NB_HOME%/ide9\modules\org-netbeans-api-xml.jar;
%NB_HOME%/soa2\modules\org-netbeans-modules-soa-ui.jar;
%NB_HOME%\platform8\modules\org-openide-loaders.jar;
%NB_HOME%/platform8\modules\org-openide-windows.jar;
%NB_HOME%/platform8\modules\org-openide-awt.jar;
%NB_HOME%/xml2\modules\org-netbeans-modules-xml-xam-ui.jar;
%NB_HOME%/platform8\modules\org-openide-options.jar;

set DB_DRIVER_PATH=%DB_DRIVERS_HOME%/db2adapter/db2builder.jar;
%DB_DRIVERS_HOME%/stc/ewaycommon/com.stc.ewayrepositoryapi.jar;
%DB_DRIVERS_HOME%/../com-stc-bpms-common.jar;
%DB_DRIVERS_HOME%/../com-stc-log4j.jar;
%DB_DRIVERS_HOME%/otd/com.stc.otd.fwbuildapi.jar;
%DB_DRIVERS_HOME%/stc/ewaycommon/com.stc.ewayutils.jar;
%DB_DRIVERS_HOME%\oracleadapter\oraclebuilder.jar;
```

```
%DB_DRIVERS_HOME%/sqlserveradapter/sqlserverbuilder.jar;
%DB_DRIVERS_HOME%/sybaseadapter/sybasebuilder.jar;
```

- CR 6694617

Importing eTL 5.1.x projects with fixed width tables fails at runtime. Runtime test resulted in a `java.sql.SQLException`.

To work around this issue, check whether the execution of the imported eTL project fails due to the exception `java.sql.SQLException: LOADTYPE property required in organization clause`. If so, open the ETL Collaboration file and verify that the `ORGPROP_LOADTYPE` attribute is listed for each flat file table that is used. If the `ORGPROP_LOADTYPE` attribute is missing, then manually add it, save the Collaboration, and then rerun the project. For example:

```
<attr name="ORGPROP_LOADTYPE" type="java.lang.String" value="FIXEDWIDTH" />
<attr name="ORGPROP_LOADTYPE" type="java.lang.String" value="DELIMITED" />
```

- CR 6705843

For a 5.1.x eTL project that was upgraded using the eTL Migration Tool and modified to use the JBI Bridge, command line codegen fails to create the EAR file.

To work around this issue, use the NetBeans GUI to build and deploy migrated Data Integrator projects.

- CR 6707522

Changing the `sun-etl-engine` setting in the Loggers properties does not change log and message levels in the server log file.

- CR 6669876

If you import a 5.1.3 eTL project into a Java CAPS 6.x environment, modify the ETL Collaboration, and then re-import the project, the ETL Collaboration does not refresh. In other words, you still see the changes you made earlier, though they should have been overwritten by the import process.

To work around this, do one of the following:

- Restart NetBeans. When you open the ETL Collaboration, it will be the original, imported version.
- Before you re-import the project, delete the ETL module from the Project window and then manually delete the directory `JavaCAPSHome/.netbeans/caps/eTL/Imported Projects/ProjectName`.

## Known Issues for the Database Binding Component

The following are known issues for the Database Binding Component:

- CR 6990940

When database parameters are mapped in BPEL, a selection failure occurs at runtime. This occurs when the `elementFormDefault` property in the XSD file is set to **qualified**

To work around this issue, make sure the XML file contains a namespace, either as a default or prefix, when the XSD file `elementFormDefault` property is set to **qualified**.

- CR 7005985

On the New WSDL Document Wizard for the Database Binding Component, an error message is not displayed in the Status section when the prepared statement you specify is invalid.

- CR 7006585

When running on Microsoft SQL Server using the Microsoft driver, insert operations fail due to limitations in the SQL Server driver. This driver requires column names in the insert statement.

To work around this issue, specify the column names in the insert statement so the `getParameterMetaData` method can process the statement correctly.

- The `ojdbc5.jar` driver for Oracle does not support prepared statements. The following error message is given:

```
java.sql.SQLException: Unsupported feature
```

No resultset is populated, and `java.lang.string` is selected for every parameter, regardless of the datatype.

To work around this issue, use `DataDirect` drivers instead of `ojdbc5.jar`.

- No error message displayed if too many parameters are supplied in an insert prepared statement. For example, `insert into table values (?, ?, ?, ?, ?)` into a 3-column table causes a runtime exception, and no parameters are added.
- When a prepared statement is used to update or delete parameters, the result displays the default `java.lang.String` datatype irrespective of the actual datatype. This is because the `DataDirect connect` of JDBC driver for Oracle does not support returning parameter metadata information for an update statement with mixed literal and parameterized arguments.

To work around this issue, manually change the datatype of the parameter in the generated XSD.

- Built-in functions require an alias to avoid misinterpreting names of elements with special characters. For example, the prepared statement `select avg(float) from table where number in(...)`; yields the following error:

```
ERROR: s4s-att-invalid-value: Invalid attribute value for 'name' in element 'element'. Recorded reason: cvc-datatype-valid.1.2.1: 'AVG(NUMBER)' is not a valid value for 'NCName'.
```

To work around this issue, use an alias for the function. For example: `select avg(float) avg from table where number in(...)`;

- DataDirect driver does not return correct metadata, resulting in an incorrect resultset for output parameters of stored procedures. This is a driver error, and work ticket W809210001 has been filed with DataDirect about the metadata call `getProcedureColumns()` returning incorrect parameters.
- A datetime value cannot be inserted for SQL Server 2005 using the `sqljdbc.jar` driver. This was caused by a syntax error involving spaces and parentheses.  
See the resolution at <http://forums.microsoft.com/technet/ShowPost.aspx?siteid=17&postid=4061403>.
- Stored procedures do not support the BLOB (binary large object) datatype. Although the procedure runs without generating an error, a select statement fails to yield any BLOB data.
- When using a Derby database for polling in a clustered environment with the Number of Records option set to a low value, the following exception is thrown and the connection pool becomes unusable:  

```
java.sql.SQLException: Connection closed.
```

  
To work around this issue, configure the number of records per poll to a high number; for example, 100 per 1000 records. A second workaround is to create all cluster-related tables in the same database
- When the Database BC is implemented in a clustered environment across multiple servers, failover does not always work because the message status in the polling table prevents the in-process messages from being picked up by another instance (or by the same instance when it resumes).  
To work around this issue, manually delete records in the polling table that are have a status of “In progress” or “SENT”. This allows running instances to pick up the messages and reprocess them.
- When the Database BC is used with a business process that has persistence enabled, the stored procedure fails and an exception is thrown.
- When you create a Database BC WSDL document using the wizard, an XSD file named *table\_name.xsd* is also created. If there is already an existing XSD file by that name, it is overwritten.  
To work around this issue, make sure the table name is different from any existing XSD file names.

## Known Issues for the Enterprise Service Bus

The following are known issues for the Enterprise Service Bus:

- CR 7030160  
Event and alert delivery to Enterprise Manager from GlassFish stops after several minutes due to default timeout settings.

To work around this issue, disable the keep-alive timeout settings for GlassFish. The following `asadmin` command disables the setting:

```
asadmin> set server.http-service.keep-alive.timeout-in-seconds=-1
```

- CR 6715253

The Repository throws exceptions when you attempt to login to the Java CAPS Suite Installer using the configured SSL port. This is due to the documented method of configuring the Repository to use SSL. For updated instructions, see [“Configuring the Repository to Use SSL” in \*Configuring Oracle Java CAPS for SSL Support\*](#).

- CR 6889874

On AIX, optional elements in the SOAP reply cause unmarshal exceptions due to a defect in handling default name spaces.

To work around this issue, navigate to `JavaCAPS_Home\appserver\domain\domain_name\config`, and open `domain.xml` in a text editor. Add the following two lines to the `java-config` element:

```
<jvm-options>-Dcom.sun.org.apache.xalan.internal.xsltc.dom.XSLTCDTManager=  
com.sun.org.apache.xalan.internal.xsltc.dom.XSLTCDTManager</jvm-options>  
<jvm-options>-Djavax.xml.transform.TransformerFactory=  
com.sun.org.apache.xalan.internal.xsltc.trax.TransformerFactoryImpl</jvm-options>
```

---

**Note** – The above lines have been wrapped for display purposes each `jvm-option` should be typed on one continuous line.

---

- CR 6670699

When using Firefox, scrollbars do not appear when a Connectivity Map or Business Process is larger than the viewable canvas. You cannot view the portions of the Connectivity Map or Business Process that are not in the viewable area.

To work around this issue, resize the Connectivity Map or Business Process to fit within the original frame.

- CR 6699303

NetBeans throws a `SocketTimeoutException` when you create a new CAPS repository branch.

To work around this, increase the repository connection timeout to 60000.

- CR 6700931

Username token with password digest is not supported. You cannot open the properties to test the password digest for the username token. This support is not fully integrated across NetBeans, WSIT, and GlassFish security.

- CR 6706429

If you enable persistence for alert management without restarting the domain, alerts that are generated into the persistence database do not reach the Enterprise Manager.

To work around this issue, restart the domain after enabling alert management persistence.

- CR 6706921

The `env . sh` command does not set the `PATH` on UNIX. It should set something similar to `PATH=$ENGINE_HOME/BIN:$JAVA_HOME/BIN:$PATH` to make samples and other executable files available.

To work around this issue, set the path manually.

- CR 6708514

Java CAPS projects with imported WSDL files fail when the JCD loads (on Red Hat Enterprise Linux 5).

- CR 6695408

The OTD Tester does not launch for transactions for OTD libraries. The OTD Tester does not handle dependent JAR files correctly, especially JAR files for Forest API-based OTDs and B2B OTDs.

To work around this issue, modify the `netbeans.conf` file as follows.

1. Navigate to `JavaCAPSHome/netbeans/etc` and open `netbeans.conf` in a text editor.
2. Locate the line that starts with `netbeans_default_options=`, and add the following option to the end of the line.

```
--cp:p JavaCAPSHome/.netbeans/caps/modules/com-stc-antlrimpl.jar
```

where `JavaCAPSHome` is the location of the Java CAPS home directory.

---

**Tip** – Make sure this option is inside the closing double quote that is the last character of the line.

---

This instructs NetBeans to prepend `com-stc-antlrimpl.jar` to the IDE's classpath so that the antlr classes supplied by this JAR file, which the B2B OTD libraries depend on, will take precedence over NetBean's default antlr.

3. Add the following option to the `netbeans_default_options=` property:

```
-J-Dantlrmaxaltblklines=3000
```

## Known Issues for the File Binding Component

The following are known issues for the File Binding Component:

- The File BC supports encodings in UTF-8 format only; if the encoding is in non-UTF-8 format, the File BC fails to read the input data. However, data of any encoding style (either UTF or non-UTF-8) and binary data can both be forwarded as attachments.

You can work around the UTF-8 limitation by doing the following:

- To read non-UTF-8 data, employ a custom encoder upstream of the File BC and convert it to UTF-8 format, which in turn can be provided as input to File BC.
- To write non-UTF-8 data, route the output from the File BC to a custom encoder and convert it from UTF-8 to the preferred encoding format. For more information, refer to *Designing Custom Encoders*.
- On the Windows operating system, when the File BC transforms XML text to bytes, an additional carriage return is added for each newline character. For example, `\r\n` is converted to `\r\r\n`.
- When using the File BC in on-demand mode and setting a normalized message property value for an assign activity, if you set the property value in the ReadOut node, it is not used by the application. You need to set the values in the ReadIn node.

## Known Issues for the FTP Binding Component

The following are known issues for the FTP Binding Component:

- When the `messageCorrelate` attribute is set to **true** in the `ftp:transfer` element of the FTP WSDL, the FTP BC expects the input file to match a fixed pattern (`req.UUID`) so the UUID can be used as the ID to correlate a request with a response.
- A project with invalid FTP BC property values can be built using command-line builds (ant tasks) but fails validation in NetBeans and is not built. This happens because certain validations that are performed automatically by NetBeans when building a project are not performed by command-line builds (ant tasks). For example, a project with a non-positive or non-integer FTP BC poll value (`pollIntervalMillis`) fails validation in NetBeans but can be built using ant commands.
- On all operating systems, the delimiter for path components specified for `preReceiveLocation` (in `sendTo`, `receiveFrom`, and so forth) is the forward slash (`/`). Using the backslash instead results in errors such as the following:

```
FTPBC-E004026.
```

```
Exception when preparing ftp connection parameters in inbound processor.  
java.lang.Exception:
```

```
FTPBC-E004019.
```

```
No directory name found in PreReceiveLocation [...] when PreReceiveCommand is  
RENAME or COPY.
```

- When the `append` attribute is set to **true** in the `file:transfer` element of the WSDL file, the FTP BC overwrites the existing output file instead of appending the information to the end of the file.



## Known Issues for the HL7 Binding Component

The following are known issues for the HL7 Binding Component:

- CR 7014525  
When the HL7 Binding Component starts, it tries to create the database tables required to persist the HL7 messages. If the schema name is not HL7BC\_SCHEMA, the binding component fails to create the tables and generates an error stating that the tables are already created.

## Known Issues for the IEP Service Engine

The following are known issues for the IEP Service Engine:

- When using Oracle as the IEP database platform, you must use Oracle JDBC driver version 10.2.0.4.0 or above. The default driver included with Oracle 9.2 (`ojdbc14.jar`) is version 9.0.2.0.0, and will not work with IEP. To determine the driver version you are using, view the `manifest.mf` file in the driver JAR file.
- Open JBI Components Issue 608  
When a cluster instance is stopped using the `asadmin stop-instance` command, IEP processes that are currently running do not fail over to a live instance. This is due to the order in which methods are called during the stop process.  
To work around this issue, stop and restart the Service Assembly.
- The IEP SE might not work as expected in high availability and failover mode. When there are two instances of the IEP SE and a project is deployed on instance 1 and then on instance 2, instance 1 generates the output in normal conditions. If you undeploy the project from instance 2 and then from instance 1, and then redeploy the project on instance 2 and then on instance 1, instance 2 should generate the output. Instead, both instance 1 and instance 2 generate the output.  
To work around this issue, restart the IEP SE on instance 2.
- This issue applies only to upgrading from previous versions of Java CAPS. After the patches are applied and the GlassFish application server is started, the IEP Service Engine might be unable to connect to Java DB or might return exceptions indicating that `iepseDB` does not exist.

To work around this issue, uninstall and then reinstall the IEP Service Engine by performing the following steps:

1. In the Services window of the NetBeans IDE, expand `Servers > GlassFish V2 > JBI > Service Engines`.
2. Right-click `sun-iep-engine` and select `Uninstall`. The IEP Service Engine is uninstalled.
3. Launch the GlassFish Admin Console.

4. In the Navigation panel on the left, expand Resources and expand JDBC, and select JDBC Resources.
  5. Delete the resources named jdbc/iepseDerbyXA and jdbc/iepseDerbyNonXA.
  6. If the iepseDB directory exists in the `install-dir/.netbeans-derby` directory, log out of the NetBeans IDE and remove the iepseDB directory.
  7. Restart the NetBeans IDE and then restart the GlassFish application server.
  8. In the NetBeans Services window, right-click Service Engines and select Install and Start.
  9. In the window that appears, browse to `install-dir/appserver/domains/domain1/jbi/autoinstall` and select the `iepserviceengine.jar` file.
  10. Accept the default configuration and click Install. The IEP Service Engine is installed and connected to Java DB (iepseDB) successfully.
- When the IEP database is configured to use Oracle, the Union operator may not work as expected. In a test case, two Relation Aggregator operators were connected to the Union operator. The output was expected to contain seven events. However, the output contained only three events. In another test case, two Time Based Window operators were connected to the Union operator. For every event that is received by one of the Time Based Window operators, the Union operator is calculated as expected. However, the Union operator is recalculated when the Time Based Window operator expires, which seems to be incorrect.
  - The relation aggregator does not work as expected for various operations, and the output is an incorrect number of events. For example, invalid aggregations are not removed for Oracle. In certain cases with Derby, aggregations are updated even if the aggregation has not changed, leading to extra events.
  - When running the IEP SE on Solaris SPARC using an Oracle database, connection errors might occur.

To work around this issue, restart the GlassFish server.
  - When IEP SE is running on Solaris SPARC and using a Derby database, not all events are processed. This is due to an issue with a JDK method used by the IEP SE to get the current timestamp.

To verify whether you are having this issue, send events to an IEP application and verify the timestamp.
  - When the IEP SE is configured for Oracle and a RelationStream operator is used to retrieve events from an input relation, duplicate events may be produced.

To work around this issue, use an InsertStream operator instead of RelationStream. Another option is to use a Distinct operator after the RelationStream operator to filter duplicates. Note that neither of these options may be able to completely replace RelationStream

- The IEP Service Engine creates connection pools and JDBC resources during installation. This automatic creation takes place only when the IEP Service Engine is installed in a GlassFish Domain Administration Server (DAS) instance. If the IEP Service Engine is installed in a GlassFish standalone instance, then the IEP Service Engine does not create the connection pools and JDBC resources.

To work around this issue, manually create the connection pools and JDBC resources and then install the IEP Service Engine.

- An IEP Module project can have multiple event processors, and one database connection is created and kept open for each event processor. Therefore, each event processor has a dedicated database connection. When the event processors stop running (for example, when the Composite Application is stopped), this connection is released. Because the IEP SE uses database connections for other tasks, the maximum pool size of the connection pools should be larger than the number of event processors that are running in the IEP SE by a count of 10.
- By default, the IEP SE generates a WSDL document for each IEP process document, and regenerates the WSDL document every time the IEP process is edited. By default, bindings and services are generated in this WSDL, and these elements usually need to be edited to work properly when deployed. However, if these WSDL documents are edited, the edits are replaced by the default values every time the WSDL document is regenerated.

Bindings and services created in the CASA Editor are not affected when the IEP WSDL documents are regenerated. However, you should not clone the IEP WSDL file to customize its generated bindings and services in the CASA Editor because updates to the generated WSDL files are not updated after cloning. Over time, the cloned and edited WSDL deployed for the bindings becomes inconsistent with the WSDL document deployed for the IEP Service Engine. Consider using the following procedure for setting up your Composite Application and IEP project for iterative development:

1. Define the IEP Module project.
2. Turn off the generation of concrete configuration elements (bindings and services) in the IEP generated WSDL files by setting the `always.generate.abstract.wsdl` flag in the `project.properties` file to true.
3. Build the IEP Module project.
4. Add the IEP Module project to a new Composite Application project and build the project.
5. Define the binding components and connections using the CASA Editor. To use the composite application test feature, define SOAP input and file output bindings as appropriate for your test environment.
6. Build and deploy the composite application.
7. Run tests.
8. Change the IEP Module project, adjust binding component and service configurations if necessary in the CASA Editor, and rebuild and redeploy the composite application. Run tests and repeat.

## Known Issues for Java Application Projects for JAXB

The following is a known issue for Java Application projects with JAXB:

- [NetBeans Issue 163169](http://www.netbeans.org/issues/show_bug.cgi?id=163169) ([http://www.netbeans.org/issues/show\\_bug.cgi?id=163169](http://www.netbeans.org/issues/show_bug.cgi?id=163169))

In Java Application projects for JAXB, JAXB class files are deleted at runtime and the application fails to run.

To work around this issue, deselect Compile on Save in the Project Properties window. Compile on Save is located in the Build > Compiling properties node.

## Known Issues for the JBI Bridge

The following are known issues for the projects containing a JBI Bridge:

- CR 7004325

Resource references are no longer supported in version 6.3. When referencing a WSDL document, you need to copy the required WSDL resource to the calling project.

- CR 6683017

When a JCD calls the JBI Bridge, the Composite Application fail to deploy even though both the repository-based project and the JBI Bridge project build successfully. The deployment produces the following error message: ERROR: Starting service assembly failed.

To work around this issue, manually start the service assembly using the JBI Mapper.

- CR 6646537

The JBI Bridge does not work with abstract WSDL. The build process for the JBI Bridge only works if the WSDL file used by the business process contains the binding and service sections.

To work around this issue, edit the WSDL file using the JBI WSDL Editor. Add the appropriate binding information and then re-import the WSDL file back to the repository-based project.

- CR 6654477

Single-part input/output literals are not supported between BPEL 1.0 and BPEL 2.0 engines across the JBI Bridge.

## Known Issues for the LDAP Binding Component

The following are known issues for the LDAP Binding Component:

- CR 6934633

When using the LDAP Binding Component with Oracle Internet Directory (OID) or Oracle Virtual Directory (OVD), `getPersistentSearch().search` will not work because OID and OVD do not support persistent search control.

When using the `getTimestampSearch()` method with OID, you need to use the catalog feature to index the `modifytimestamp` and `createtimestamp` values and the restart OID. This will enable timestamp searches. For example:

```
set ORACLE_HOME and ORACLE_INSTANCE
cd/opt/Oracle/Middleware/Oracle_IDM1/ldap/bin
./catalog connect="localhost:1521" add=true attribute="createtimestamp"
./catalog connect="localhost:1521" add=true attribute="modifytimestamp"
cd $ORACLE_INSTANCE/bin
./opmnctl restart
```

When the authentication type is not agreed upon between the LDAP server and client, an `AuthenticationNotSupportedException` occurs. For example, the error occurs when a client specifies strong SSL authentication with a DSEE 6 server that handles none or simple authentication, but not strong authentication.

- No design-time validation is performed when an invalid root DN is supplied (such as `dc=sun` instead of `dc=sun,dc=com`), and the user is (incorrectly) allowed to create LDAP WSDL files with the incorrect values. Such a project correctly fails at runtime with a No such object error message.

## Known Issues for Java CAPS Master Index

The following is a known issue for Java CAPS Master Index projects:

- CR 7027426

Master Index (Repository) throws a severe error `Parse Fatal Error at line 1 column 1: Content is not allowed in prolog`. This error does not affect the functioning of the application.

- CR 7027337

Undeploying a Master Index application throws several errors in the server log, but the application deploys correctly.

- CR 6718625

If a field is included in the EDM reports but is not configured to be visible on the EDM, the reports will not generate.

To work around this issue, do not include fields that are not visible on the EDM in the reports.

- CR 6867017

When a Master Index application is redeployed from NetBeans, updates to the deployment destination (for example, host name and port number) are not updated.

To work around this issue, deploy from the GlassFish Admin Console or the command line.

To deploy from NetBeans, open

*NetBeansProjects/ProjectName/nbproject/private/private.properties* in a text editor and modify the `j2ee.server.instance` property. For example:

```
j2ee.server.instance=[C:\\CAPS62\\appserver]deployer:Sun:AppServer::localhost:21048
```

- CR 6757529

In the Java CAPS Match Engine, the date comparison functions (dY, dM, dD, and so on) do not work correctly when used as a direct string comparison rather than a relative distance calculation. That is, the `y` option does not return the correct value.

To work around this, use date comparison functions with a direct string comparison (the `n` option).

## Known Issues for the XSLT Service Engine

The following are known issues for the XSLT Service Engine:

- CR 6962750

XSLT transformation projects fail on the AIX operating system.

To work around this issue, add the following JVM options to the domain using the GlassFish Admin Console:

```
-Dcom.sun.org.apache.xalan.internal.xsltc.dom.XSLTCDTManager=com.sun.org.apache.xalan.internal.xsltc.dom.XSLTCDTManager  
-Djavax.xml.transform.TransformerFactory=com.sun.org.apache.xalan.internal.xsltc.trax.TransformerFactoryImpl
```

---

**Note** – The above options have been wrapped for readability. Each option should be entered on one line with no line breaks.

---

Restart the application server after making the changes.

- A SEVERE error appears in the server log when running an XSLT project with an HTTP/SOAP binding. The error is:

```
Unable to create envelope from given source because the root element is not named Envelope
```

This is an erroneous log message and does not interfere with the running of the XSLT project.

To prevent the message from being logged, set the SAAJ Logger for the XSLT SE to **OFF**.

- [NetBeans Issue 161321](http://www.netbeans.org/issues/show_bug.cgi?id=161321) (http://www.netbeans.org/issues/show\_bug.cgi?id=161321)  
If you change text in the XML editor, clicking Validate does not save the changes before compiling and validating the code. You need to click Save All before validating the XML.
- [NetBeans Issue 162869](http://www.netbeans.org/issues/show_bug.cgi?id=162869) (http://www.netbeans.org/issues/show\_bug.cgi?id=162869)  
The XSLT SE does not support catalog.xml, which is required for the correct Referenced Resources support. For example, when referencing a WSDL document from another project using Project Reference, the XSLT project fails to deploy.

## Known Issues for Composite Applications

The following are know issues for Composite Application (CA) projects:

- [NetBeans Issue 148024](http://www.netbeans.org/issues/show_bug.cgi?id=148024) (http://www.netbeans.org/issues/show\_bug.cgi?id=148024)  
A test case cannot be created using the SOAP12 binding, even though GlassFish otherwise supports SOAP 1.2.  
To work around this issue, use a SOAP binding instead of SOAP12.
- [NetBeans Issue 152455](http://www.netbeans.org/issues/show_bug.cgi?id=152455) (now 138971) (http://www.netbeans.org/issues/show\_bug.cgi?id=152455)  
When the design canvas of the CASA Editor is at certain sizes, the display of its scrollbars oscillates and CPU usage goes to 100%.  
To work around this issue, increase the size of the window or of the CASA Editor design canvas so scrollbars do not display.
- [NetBeans Issue 152449](http://www.netbeans.org/issues/show_bug.cgi?id=152449) (http://www.netbeans.org/issues/show\_bug.cgi?id=152449)  
When a new project type is freshly installed, the Composite Application project is initially unable to determine the service engine type and is thus unable to deploy the service unit. The following error message appears:  
Cannot add JBI module *project\_type*.  
Its target component type *engine\_name* is unknown.  
To work around this issue, stop and then restart the NetBeans IDE.
- [NetBeans Issue 153537](http://www.netbeans.org/issues/show_bug.cgi?id=153537) (http://www.netbeans.org/issues/show\_bug.cgi?id=153537)  
You cannot rebuild a Composite Application project after a Service Unit (SU) has been deleted from it.  
To work around this issue, manually edit the build-impl.xml file and delete all sections that operate on the deleted SU.

## Known JBI Management Issues

The following are known issues in managing JBI components:

- When a component is shut down while there are configuration errors, it cannot be restarted and its configuration settings cannot be edited within the NetBeans IDE or the web console.

When this occurs, the state of the component changes to “Stopped”, and you can reconfigure the properties correctly. After you correct the property values, shutdown and then restart the component in order for the changes to take effect.

For the BPEL Service Engine, when there is an error in the JDBC resource name, the engine will create the resource with the given name and assume that the default connection pools are used. If the Derby database is not started, the default connection pools are not created.

- [NetBeans Issue 163169](http://www.netbeans.org/issues/show_bug.cgi?id=163169) ([http://www.netbeans.org/issues/show\\_bug.cgi?id=163169](http://www.netbeans.org/issues/show_bug.cgi?id=163169))

Selecting the Compile on Save option in a Java Application Project Properties window causes a JAXB class file to be deleted at runtime. The project fails at runtime with the following exception:

```
Exception in thread "main" java.lang.NoClassDefFoundError
```

To work around this issue, deselect the Compile on Save option. This option is located on the Java Application Properties window under Build > Compiling.

## Known Localization Issues

The following are known localization issues:

- When you perform the following steps in a non-English locale, you cannot expand the GlassFish server tree to select the value.
  1. Launch the New File Wizard to create a new JCA message-driven bean.
  2. Complete steps 1 through 3 on the wizard.
  3. For the Connection URL in step 4, click the ellipses button and start the GlassFish server to obtain the JNDI value.

To work around this issue, use the GlassFish Admin Console to retrieve the JNDI value to enter for the Connection URL. The value is located under Resources > Connectors > Admin Object Resources.

- CR 6883496

When a Composite Application is created on a Chinese locale, the build process fails for the Composite Application.



## Known Installation and Startup Issues

The following are known installation issues:

- When Java CAPS is set up to start as a Windows service, the Repository and Enterprise Manager do not start as Windows services.  
 To work around this issue, see [Article 1308487.1](#).
- On Linux servers, multiple tools and scripts fail during installation due to the incorrect setting of the ANT\_HOME variable. When this occurs, a `NoClassDefFoundError` exception is thrown. This is an issue with Oracle Application Server.  
 To work around this issue, unset the ANT\_HOME environment variable prior to installing Java CAPS. After you unset the variable, you can do one of the following:
  - Remove the `/etc/ant.conf` file.
  - Comment out the line in the `/etc/ant.conf` file that incorrectly sets the ANT\_HOME environment variable.
- To enable the 64-bit JVM on Solaris, you need to add the `-d64` option to your JVM options. For example, `asadmin create-jvm-options --host localhost --port 4848 --user admin --passwordfile /JavaCAPS/pwd/password_file.PE "\-d64"`.  
 For more information about the `-d64` option, see <http://download.oracle.com/javase/6/docs/technotes/tools/solaris/java.html>.
- CR 7021911  
 The date shown in the Date/Time of Installation column on the Java CAPS Suite Installer shows the build date instead of the installation date for the components that are automatically installed during a standard Java CAPS installation.
- CR 6947251  
 Java CAPS installation fails with the following error on Windows 2008 R2, 64-bit JVM.  
 Windows error 2 occurred  
 To work around this issue, add the path to `Java_Home\bin` to the PATH environment variable before running the installation.
- CR 7012743  
 Uploading `HL7V32006ClaimsAndReimb.sar` throws an out of memory exception.  
 To work around this issue, do the following:
  1. Extract the `install.properties` file from `HL7V32006ClaimsAndReimb.sar`.
  2. Modify the `installer.ant.memoryOptions` property as shown below:
 

```
installer.ant.memoryOptions=-Xmx2048m
```
  3. Add the `install.properties` back into the SAR file.
  4. Upload the modified SAR far to the Repository using the Java CAPS Suite Installer.
- CR 6947251

When installing Java CAPS on Microsoft Windows 2008 R2 or Windows 7, you must add the *Java\_Home*\bin directory to the PATH environment before performing the installation.

- CR 6706840

When installing Java CAPS on Red Hat Enterprise Linux 5, the installer stops responding when the installation is complete.

To work around this, select the 'X' button in the top right corner of the window. A new window appears with a message that says "Installation not complete". Select OK on this window.

- CR 6881054

On the installer, certain messages are truncated and the full text cannot be read. In some cases, you can expand the width of the installer window to view the entire message.

- CR 6865075

When you import 5.0.x projects into Java CAPS 6.3, the connections in the Connectivity Map might not be brought forward correctly. If this occurs, you will see Connectivity Map errors when building the Project. The error messages provide information about the connections that need to be fixed.

## Known Interoperability Issues

The following are known interoperability issues:

- CR 6707146

The default Access Manager setup provided by Java CAPS does not work with Federated Access Manager 8.0.

- CR 6662622

The Worklist Manager portlet from Java CAPS 5.1.3 does not deploy on Portal Server 7.

- CR 6703514

Access Manager is preconfigured for the localhost, causing remote accessibility issues when it is accessed through FQDN.

To work around this issue, perform the following steps:

1. Stop GlassFish.

2. Navigate to

*JavaCapsHome*/appserver/domains/*DomainName*/applications/j2ee-modules/amserver/WEB-INF and open *AMConfig.properties* in a text editor.

3. Uncomment the

`com.sun.identity.server.fqdnMap[<invalid-name>]=<valid-name>` property.

4. Modify the property by substituting the proper values for <invalid-name> and <valid-name>.

5. Restart GlassFish.

- CR 6882644

Deployment of Web Space Server WAR files fails if GlassFish and Web Space Server were installed from different file-based distributions.

To work around this issue, deploy the files manually by either using the Admin Console or copying the files to the domain autodeploy directory.

## Known NetBeans Issues

- Java CAPS 6 is tested and certified to work with NetBeans plugins that are installed by the Java CAPS Installer. Installing any other NetBeans plugins or plugin updates to your NetBeans IDE can cause compatibility issues. This recommendation does not apply to plugins or updates that you get from Java CAPS Support.

When starting NetBeans IDE, you may be prompted to install updates for the third-party plugins in your IDE. Do not install them. To avoid being prompted in the future, follow the instructions below:

1. On the NetBeans IDE, click Tools and then select Plugins.
2. In the Plugins window, select the Settings tab.
3. Select only CAPS Repository Update Center and deselect any other Update Centers.
4. Click Close to save your changes and close the Plugins window.

If you want to use other NetBeans plugins, backup the `.netbeans` directory, which can be found in the top level Java CAPS installation director. Alternatively, use a separate NetBeans installation to try other plugins that are not included with Java CAPS. If you need to restore a backed up `.netbeans` directory, make sure that your NetBeans IDE is not running. Then remove the current `.netbeans` directory and replace it with the backed up directory.

## Known GlassFish Enterprise Server Issues

- CR 6761432

When Access Manager is undeployed using the NetBeans IDE, NetBeans throws an error and the GlassFish server can no longer be accessed from NetBeans or the Admin Console.

To work around this issue, only undeploy Access Manager from the GlassFish Admin Console using container-specific commands and be sure to delete the configuration files and the bootstrap file. You also need to restart the web container. For more information, see “Undeploying Access Manager” in [Installing, Configuring, and Deploying Sun Java System Access Manager the Simple Way](#).

- CR 6684658

The STCMS server does not shut down properly when GlassFish Enterprise Server is run as a Windows service. Even after stopping the service, STCMS is still present in the Windows task manager.

To work around this issue if you install Java CAPS 6 on Windows and you intend to run Java CAPS as a Windows service, add the following line to `domain.xml` after installation:

```
<jvm-options>-Dcom.sun.enterprise.server.ss.ASQuickStartup=false</jvm-options>
```

- CR 6744439

The `asadmin` commands for creating and managing an STCMS instance are not listed in the output of `asadmin help`. The available STCMS commands are:

- `create-stcms`
- `delete-stcms`
- `list-stcms`
- `show-stcms-status`
- `enable-stcms`
- `disable-stcms`

You can access the help information for these commands by typing `asadmin help CommandName`, where *CommandName* is one of the commands listed above.

---

**Note** – You must have STCMS installed in order to access the help information for these commands. STCMS is not supported on Mac OS, and is thus not included as part of the default Java CAPS installation on Mac.

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- CR 6785405

In order to use the recycle-size feature to limit the number of `server.log` files that are created, you need to install the GlassFish Enterprise Manager Performance Advisor. For download instructions, see the [Sun GlassFish Enterprise Manager Performance Advisor 1.0 Installation and Quick Start Guide](#). The patch ID is 140751. Follow the installation instructions in the readme file. The readme file also provides links to additional information about the Performance Advisor.

## Known Issues for JBI Clustering

The following are known issues for working with Java CAPS JBI components in a clustered environment:

- When you configure cluster instances using the GlassFish Admin Console, the configuration does not propagate to any new cluster instances. This is because instances are configured individually. In some cases, this can cause deployment to fail.

To work around this issue, configure each cluster instance individually or use the following `asadmin` command to configure all instances in the cluster:

```
asadmin update-jbi-application-variable --component=sun-jms-binding
name=value
```

See `asadmin help` for usage information.

- CR 6883003

A web application is unable to find the WSDL file on a second instance when the web service is deployed in a GlassFish cluster where the first node includes the DAS and a node agent, and the second node includes just a node agent.

To work around this issue, on the second cluster instance create a directory hierarchy for DAS and copy or create a symbolic link to the WSDL file in the location where the web application expects to find it. For example:

```
mkdirhier
/opt/glassfish/domains/domain1/applications/j2ee-modules/WebAppName/
WEB-INF/wsdl/client/WSDLName/

cd /opt/glassfish/domains/domain1/applications/j2ee-modules/WebAppName/
WEB-INF/wsdl/client/WSDLName/

cp /opt/glassfish/nodeagents/ClusterNodeAgent/InstanceName/applications/
j2ee-modules/WebAppName/WEB-INF/wsdl/client/WSDLName/WSDLName.wsdl

ln -s /opt/glassfish/nodeagents/ClusterNodeAgent/InstanceName/applications/
j2ee-modules/WebAppName/WEB-INF/wsdl/client/WSDLName/WSDLName.wsdl
```

## Other Known Issues

- The Alert Agent and its API are not fully documented in the Java CAPS library. For additional information about Alert Agent and SNMP Agent, see <http://wiki.open-esb.java.net/Wiki.jsp?page=ESBConsoleGeneralInformationAboutAlerting>.

- CR 6991708

When building a large project from a command line, a stack overflow exception is thrown. This occurs if the stack size is not set high enough.

To work around this issue, increase the JVM stack size (Xss) to 2048 KB. For example:

```
set ANT_OPTS=-Xss2048k
```

Optionally, use NetBeans to build the project.

- CR 6795635

If project1 is a dependent project of project2, you cannot add resources from project2 as a referenced resource in project1 as this causes a cyclic dependency and throws an exception.

To work around this issue, keep common resources that you need to reuse in a separate common project.

- MySQL does not support microseconds, so if an incoming message contains any time or timestamp fields that drill down to the microsecond, the fractal part of the seconds is ignored in the database. For example, if the value of a timestamp is '2010-12-10 14:12:09.019473', the last six digits (019473) are ignored.
- CR 6761256  
The Enterprise Manager command `stopserver` throws an exception when Enterprise Manager is not running instead of letting you know it is not running.
- CR 6744536  
There is no mechanism to switch on and off the Unique Particle Attribution (UPA) rule for the XML Schema, which prevents schema ambiguity. In Java CAPS 5.1.3, the default is to have UPA checking disabled; in Java CAPS 6, the default is to have UPA checking enabled.  
To work around this issue, create a file named `XML.properties`, and add the following line:  
`enforceUnqPartAttrib=false`  
Save the file to `/.netbeans/caps/config/Preferences/com/stc/capsee/cor/utilities`. This disables UPA checking. To enable UPA checking, remove the file or set the parameter to true.
- CR 6662117  
Release 6 does not support using components from previous 5.x releases with Release 6 components. For example, you cannot connect to a Release 6 Repository from a 5.1.3 Enterprise Designer, and you cannot connect to a 5.1.3 Repository from NetBeans. It is similar for Enterprise Manager.