Oracle® Fusion Middleware

Release Notes for Oracle SOA Suite

12*c* (12.2.1.4.0)
E95677-09
March 2021

ORACLE

Oracle Fusion Middleware Release Notes for Oracle SOA Suite, 12*c* (12.2.1.4.0)

E95677-09

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Primary Author: Oracle Corporation

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Preface

Release Notes for Oracle SOA Suite describes new features for Release 12*c* (12.2.1.*x*) of Oracle SOA Suite, and also includes information about known issues and workarounds.

For release notes for earlier releases not covered here, refer to the Oracle Fusion Middleware library on the Oracle Help Center for the release you need.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at `http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc`.

Accessible Access to Oracle Support

Oracle customers who have purchased support have access to electronic support through My Oracle Support. For information, visit `http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info` or visit `http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs` if you are hearing impaired.

Related Documents

Refer to the Oracle Fusion Middleware library on the Oracle Help Center for additional information.

- For Oracle SOA Suite information, see Oracle SOA Suite.
- For adapters information, see On-Premises Integration Adapters.
- For Oracle BAM information, see Oracle Business Activity Monitoring.
- For Oracle B2B information, see Oracle B2B.
- For Oracle Business Process Management information, see Oracle Business Process Management.
- For Oracle Enterprise Scheduler information, see Oracle Enterprise Scheduler.
- For Oracle Managed File Transfer information, see Oracle Managed File Transfer.
- For Oracle Service Bus information, see Oracle Service Bus.
- For Oracle SOA Suite for healthcare integration information, see Oracle SOA Suite for Healthcare Integration.
- For versions of platforms and related software for which Oracle products are certified and supported, review the Certification Matrix on OTN.
- For cloud adapters information, see:

- *Using Ariba Adapter*
- *Using Oracle Eloqua Cloud Adapter*
- *Using Oracle ERP Cloud Adapter*
- *Using the NetSuite Adapter*
- *Using Oracle RightNow Cloud Adapter*
- *Using Salesforce Adapter*
- *Using Oracle Sales Cloud Adapter*
- *Using ServiceNow Adapter*
- *Using SuccessFactors Adapter*

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1
New Features

Oracle SOA Suite 12*c* (12.2.1.4) is available on-premises and in the cloud. To use Oracle SOA Suite in the cloud, see:

- *Using Oracle SOA Suite on Marketplace in Oracle Cloud Infrastructure*
- Oracle SOA Cloud Service

New features for Release 12*c* (12.2.1.*x*) of Oracle SOA Suite on-premises are described in the following guides:

- For developer-related features, see What's New in This Guide in *Developing SOA Applications with Oracle SOA Suite*.
- For administrator-related features, see What's New in This Guide in *Administering Oracle SOA Suite and Oracle Business Process Management Suite*.

Also see New Features in *Release Notes for Oracle Technology Adapters*.

1.1 New Features in Oracle SOA for Healthcare Integration

New features for Release 12*c* (12.2.1.*x*) of Oracle SOA Suite for healthcare integration are:

- A command-line utility to resubmit an application message or a wire message for a selected business message. See Resubmitting a Message.
- An enhancement to remove the dependency of outbound messages to ports. See About Resubmitting Messages.
- A new Session Timeout parameter on the UI Settings page. See Setting runtime and User Interface Properties.

1.2 New Features in Oracle B2B

A new feature for Release 12*c* (12.2.1.*x*) of Oracle B2B is:

- An enhancement to remove the dependency of outbound messages to ports. See Resubmitting Messages from Oracle B2B.

1.3 New Features in Oracle BAM

There are no new features for Release 12*c* (12.2.1.*x*) of Oracle BAM.

2
Known Issues and Workarounds

This chapter describes known issues and workarounds for Release 12*c* (12.2.1.*x*) of Oracle SOA Suite:

- SOA Core Known Issues and Workarounds.
- Oracle B2B Known Issues and Workarounds.
- Oracle BAM Known Issues and Workarounds.

> **Note:**
>
> To apply patches noted in this guide, sign in to My Oracle Support and search for the patch numbers to locate and download the patches.

2.1 SOA Core Known Issues and Workarounds

Known issues and workarounds for Release 12*c* (12.2.1.*x*) of SOA Core are:

- DiffTool Utility Output Includes Invalid Links to Documentation
- SOAINFRA Schema Creation Fails on a Hardened Database
- Voice Notifications Not Active
- Payload Restriction in REST Binding
- NullPointerException While Deploying a Composite
- oracle.mds.core.MetadataNotFoundException: MDS-00013 Excecption for Bulk Recovery Request
- Invalid Composite Error When Migrating SOA Composite from 11*g* to 12c
- Auto Purge Through EM Throws OSA-1403 Error
- Maven Is Slow in Windows 7 x64
- Unable to Process the Sensor Exception for Asynchronous Service
- Incorrect Migration Policy In UMSJMSJDBCSTORE_AUTO_2 After OSB Extension
- Domain Creation Fails If the Correct Server Groups Are Not Selected While Configuring OSB and SOA
- An Incorrect config.xml File Is Generated While Extending a SOA Cluster with OSB
- Add Access Control Dialog Fails to Display a Newly Created ESS Application Role
- Delete Selected Instance May Fail in an Upgraded Environment
- Some JMS Inbound Messages Get Rejected Following an Abnormal Shutdown and Subsequent Restart of the Managed Server

- Prerequisite Not Executed While Installing 12.2.1 SOA on DOCKER Container
- Second Right-Click Does Not Work in Target Navigation Tree for Safari
- Invalid Username/Password - ORA-01017
- Oracle SOA Suite 12*c* Does Not Support Non-Oracle Databases and Third-Party Application Servers

2.1.1 DiffTool Utility Output Includes Invalid Links to Documentation

Issue

Bug Number: 30232711

Impacted Releases: 12.2.1.4.0

Impacted Platforms: All

The DiffTool utility provides a JSON report that lists the settings in the current domain and provides the configured settings for a Reference Configuration domain. This report includes invalid links to additional documentation for configured Reference Configuration domain settings.

Workaround

For the correct links, see Using the DiffTool Utility for Checking Reference Configuration Domain Settings in *Administering Oracle SOA Suite and Oracle Business Process Management Suite*.

2.1.2 SOAINFRA Schema Creation Fails on a Hardened Database

Issue

Bug Number: 19193580

Impacted Releases: 12*c*

Impacted Platforms: All

On an Oracle hardened database, when the public grants are revoked for the PL/SQL packages, the schema creation for `SOAINFRA` fails with the following error:

```
Received Non-Ignorable Error: ORA-04063: package body "XDB.DBMS_CSX_INT"
has errors
```

Workaround

Grant the following permission to the user and run the Repository Creation Utility (RCU) again to create the schemas for `SOAINFRA`:

```
GRANT EXECUTE ON DBMS_LOB TO XDB;
```

2.1.3 Voice Notifications Not Active

Issue

Bug Number: 30904272

Impacted Releases: 12*c*

Impacted Platforms: All

Voice notifications are supported in Oracle SOA Suite 11*g*, but not supported in Oracle SOA Suite 12*c*.

Workaround

None.

2.1.4 Payload Restriction in REST Binding

Issue

Bug Number: 27396866

Impacted Releases: 12.2.1.3.0

Impacted Platforms: All

You will see an `OutOfMemory` exception when the payload size is more than 300MB in REST binding. This is because it takes around 10 times memory of the size of the payload. This is a limitation.

Workaround

None.

2.1.5 NullPointerException While Deploying a Composite

Issue

Bug Number: 26654091

Impacted Releases: 12.2.1.3.0

Impacted Platforms: All

While trying to deploy a SOA composite application, if you see a `NullPointerException` error, ignore it. The error is thrown if the name of the composite is missing from the URL.

Workaround

Try using a different browser.

2.1.6 oracle.mds.core.MetadataNotFoundException: MDS-00013 Excecption for Bulk Recovery Request

Issue

Bug Number: 27272902

Impacted Releases: All

Impacted Platforms: All

When you request for bulk recovery in SOA, you may encounter the following exception:

```
oracle.mds.core.MetadataNotFoundException: MDS-00013: no metadata
found for metadata object "/oracle/apps/ess/custom/soa/Schedule/
BULKRECOVERY.xml
```

Workaround

Ensure that `DummySchedule` is not present in your environment. The `DummySchedule` prevents the submission of the bulk recovery request.

2.1.7 Invalid Composite Error When Migrating SOA Composite from 11*g* to 12c

Issue

Bug Number: 27175899

Impacted Releases: All

Impacted Platforms: All

When you migrate a SOA composite applications from 11*g* to 12*c*, an error `Invalid Composite` is thrown. This occurs when the `.jpr` file of the migrated composite does not have the `technologyScope` attribute with SOA metadata in it.

Workaround

Verify that the `technologyScope` attribute is included in the `.jpr` file before you attempt the migration to 12*c*.

Add the following code snippet in the `.jpr` file after the close tag of `<list n="contentSets">`:

```
<value n="defaultPackage" v="project1"/>
    <hash n="oracle.ide.model.ResourcePaths">
        <hash n="resourcesContentSet">
            <list n="url-path"/>
        </hash>
    </hash>
    <hash n="oracle.ide.model.TechnologyScopeConfiguration">
        <list n="technologyScope">
            <string v="SOA"/>
        </list>
    </hash>
    <hash n="oracle.jdeveloper.compiler.OjcConfiguration">
        <list n="copyRes">
            <string v=".gif"/>
            <string v=".GIF"/>
            <string v=".jpg"/>
            <string v=".JPG"/>
            <string v=".jpeg"/>
            <string v=".JPEG"/>
```

```
            <string v=".png"/>
            <string v=".PNG"/>
            <string v=".properties"/>
            <string v=".xml"/>
            <string v=".ejx"/>
            <string v=".xcfg"/>
            <string v=".cpx"/>
            <string v=".dcx"/>
            <string v=".sva"/>
            <string v=".wsdl"/>
            <string v=".ini"/>
            <string v=".tld"/>
            <string v=".tag"/>
            <string v=".xlf"/>
            <string v=".xsl"/>
            <string v=".xsd"/>
            <string v=".exm"/>
            <string v=".xml"/>
        </list>
        <value n="internalEncoding" v="UTF8"/>
        <list n="Javac.commandline.optionlist">
            <string v="-g"/>
            <string v="-Xlint:all"/>
            <string v="-Xlint:-cast"/>
            <string v="-Xlint:-empty"/>
            <string v="-Xlint:-fallthrough"/>
            <string v="-Xlint:-path"/>
            <string v="-Xlint:-serial"/>
            <string v="-Xlint:-unchecked"/>
        </list>
        <value n="webIANAEncoding" v="UTF-8"/>
    </hash>
```

2.1.8 Auto Purge Through EM Throws OSA-1403 Error

Issue

Bug Number: 27157704

Impacted Releases: All

Impacted Platforms: All

When you schedule auto purge through EM, it results in `ORA-1403` (No data found). If this error is thrown, check all the autopurge job artifacts in the schema.

Workaround

Recreate the `SOAINFRA` schema so that the missing jobs are recreated.

2.1.9 Maven Is Slow in Windows 7 x64

Issue

Bug Number: 27157678

Impacted Releases: All

Impacted Platforms: Windows 7 x64

When you have multiple SOA projects and use Maven to build/deploy the projects, the compilation is very slow. It can take up to 10 minutes.

This is an issue related to performance and occurs only on Windows 7 x64.

2.1.10 Unable to Process the Sensor Exception for Asynchronous Service

Issue

Bug Number: 27157725

Impacted Releases: All

Impacted Platforms: All

If an asynchronous service is used with the operation name being the same for the request and response message, the sensors defined for such messages may throw an `Unable to process the sensor` exception.

Workaround

Do not use the same operation name for both request and response messages in the service.

2.1.11 Incorrect Migration Policy In UMSJMSJDBCSTORE_AUTO_2 After OSB Extension

Issue

If you are adding an OSB dynamic cluster to a domain containing a SOA dynamic cluster, where you already have changed the policy of the **UMSJMSJDBCSTORE_AUTO_1** persistent store to something different from **off**, the **UMSJMSJDBCSTORE_AUTO_2** created for **OSB_Cluster** will inherit that migration policy. This causes a configuration error because the OSB_Cluster doesn't have any leasing configuration by default, and the AdminServer fails to start.

Admin server fails to start by displaying the following error:

```
weblogic.management.ManagementException: [Management:141266]Parsing
failure in config.xml: The following failures occurred:
-- An attempt was made to set the migration-policy of JDBCStore
UMSJMSJDBCStore_auto_2 to "On-Failure". Before automatic migration of any
kind can be used, the MigrationBasis must be set in the ClusterMBean.
```

Workaround

Edit the domain `config.xml` as follows:

- Look for the **UMSJMSJDBCSTORE_AUTO_2** element that is targeted to the OSB Cluster.
- Set its <migration-policy> to `off`.
- For example:

```
<jdbc-store>
    <name>UMSJMSJDBCStore_auto_2</name>
  ..

    <migration-policy>off</migration-policy>
.....
  </jdbc-store>
```

2.1.12 Domain Creation Fails If the Correct Server Groups Are Not Selected While Configuring OSB and SOA

Issue

If you configure an OSB and SOA cluster without selecting the correct server groups, then the domain creation fails with the following notice:

```
Preparing...
Extracting Domain Contents...
Creating Domain Security Information...
Starting OPSS Security Configuration Data Processing...
The OPSS Security Configuration Data Processing Completed...
Domain Creation Failed!
```

Workaround

To avoid this error, select **OSB-MGD-SVRS-COMBINED** and **SOA-MGD-SVRS** server groups for all Managed Servers on the Managed Servers screen.

2.1.13 An Incorrect config.xml File Is Generated While Extending a SOA Cluster with OSB

Issue

When extending your SOA cluster domain with OSB, if you delete the existing Managed Server and create a new Managed Server, an incorrect `config.xml` file is generated. For example, if you delete the existing **soa_server1** and replaced it with **osb_server1** you get an incorrect `config.xml` file. Specifically, the following SAF tags are missing from `config.xml`:

```
<saf-agent>
    <name>ReliableWseeSAFAgent_auto_1</name>
    <target>osb_server1 (migratable)</target>
    <store>WseeFileStore_auto_1</store>
  </saf-agent>
  <saf-agent>
    <name>ReliableWseeSAFAgent_auto_2</name>
```

```
    <target>ms2 (migratable)</target>
    <store>WseeFileStore_auto_2</store>
  </saf-agent>
```

Workaround

When extending your SOA cluster, create new Managed Servers for OSB.

2.1.14 Add Access Control Dialog Fails to Display a Newly Created ESS Application Role

Issue

Bug Number: 24586390

Impacted Releases: All

Impacted Platforms: All

Create an Oracle Enterprise Scheduler application, and create an application role to configure security.

When you try to add resource grants for the ESS application role in the Job Definition configuration, the newly-created application role might not show in the Role dropdown menu.

Workaround

Restart Oracle JDeveloper to resolve the issue.

2.1.15 Delete Selected Instance May Fail in an Upgraded Environment

Issue

Bug Number: 22937819

Impacted Releases: All

Impacted Platforms: All

On environments upgraded from 11.1.1.9.0, deleting flow instances of a composite from the Flow Instances tab in Enterprise Manager Fusion Middleware Control might not work. This bug is specific to database version 12.1.0.1.0.

Workaround

The workaround is to apply Patch 20830993 for database version 12.1.0.1.0. See details on the Oracle Support site.

2.1.16 Some JMS Inbound Messages Get Rejected Following an Abnormal Shutdown and Subsequent Restart of the Managed Server

Issue

Bug Number: 24558686

Impacted Releases: All

Impacted Platforms: All

If the managed server undergoes an abnormal shutdown and subsequent restart, some of the JMS inbound messages can be rejected, as a result of non-retriable runtime exception.

Workaround

You can access and retry these messages. See Handling Rejected Messages.

2.1.17 Prerequisite Not Executed While Installing 12.2.1 SOA on DOCKER Container

Issue

Bug Number: 21846678

Impacted Releases: 12.2.1

Impacted Platforms: All

During installation of SOA 12.2.1 on Docker Container, the "Checking Operating System Certification" prerequisite is not executed. This is expected behavior.

Workaround

You can either click **Skip** and continue with the installation, or run the SOA installer in silent mode with flags `-ignoreSysPrereqs` and `-novalidation` to ensure that system prerequisite checks are skipped.

2.1.18 Second Right-Click Does Not Work in Target Navigation Tree for Safari

Issue

Bug Number: 21965636

Impacted Releases: All

Impacted Platforms: All

Description of the issue and when it might occur

1. Use Safari browser to log in to Enterprise Manager Fusion Middleware Control.
2. Expand the target navigation tree on the left.
3. Navigate to the SOA, soa-infra node.
4. Right-click a composite. You get the options.
5. Now, right-click again on any node. The options do not appear. You get a blank context menu.

Workaround

You can use the SOA Infrastructure drop-down menu to access the menu options

2.1.19 Invalid Username/Password - ORA-01017

Issue

Bug Number: 26565652

Impacted Releases: 12.2.1.3.0

Impacted Platforms: All

If you encounter the error `ORA-01017: invalid username/password` , manually apply the patch available at My Oracle Support. This is a known issue and a fix will be available in the next release.

2.1.20 Oracle SOA Suite 12*c* Does Not Support Non-Oracle Databases and Third-Party Application Servers

Issue

Instances that were created using a non-Oracle database cannot be migrated to Oracle Fusion Middleware 12*c*.

Workaround

To migrate the closed instances from Oracle Fusion Middleware 11*g* to Oracle Fusion Middleware 12*c*, you must create a new 12*c* SOA domain using a supported Oracle database. Active 11*g* instances must be completed using the existing 11*g* server.

2.2 Oracle SOA Suite for Healthcare Integration Known Issues and Workarounds

A known issue for Release 12*c* (12.2.1.*x*) of Oracle SOA Suite for healthcare integration is:

- SOA Upgrade Fails with Reconfiguration-Related Healthcare-UI

2.2.1 SOA Upgrade Fails with Reconfiguration-Related Healthcare-UI

Issue

If the SOA Suite domain reconfiguration fails due to Healthcare-UI validation, then delete the HealthCare-UI from the WebLogic Server deployment page.

Workaround

Before deleting the HealthCare-UI, make sure that HealthCare-UI is not in active state. If HealthCare-UI is not in active state and the reconfiguration continues to fail at Healthcare-UI validation, then contact Oracle Support.

2.3 Oracle B2B Known Issues and Workarounds

Known issues and workarounds for Release 12*c* (12.2.1.*x*) of Oracle B2B are:

- Transactions Stuck MSG_WAIT_BATCH State
- An Attribute Cannot Appear More Than Once in the Same Start Tag

2.3.1 Transactions Stuck MSG_WAIT_BATCH State

Issue

Bug Number: 24012499

Impacted Releases: 12.2.1.3.0

Impacted Platforms: All

In a transaction type 810, messages get stuck in MSG_WAIT_BATCH state, which means that the business logic is completed and they are waiting for delivery to the next stage.

Workaround

The EM property `b2b.additionalDebugInfo` must be defined to log any batch straggler information into the <soa_server>-diagnostic.log. To write the batch straggler batch name and lag time into the file, the value of the EMproperty should follow this format: `logDir=`<directory where the file will be written>. The directory name is not case-sensitive.

2.3.2 An Attribute Cannot Appear More Than Once in the Same Start Tag

Issue

Bug Number: 25530559

Impacted Releases: 12.2.1.3.0

Impacted Platforms: All

The following exception error with an endpoint may occur intermittently: `oracle.xml.parser.schema.XSDException: An attribute cannot appear more than once in the same start tag.` If this occurs, you can enable the logging to try to diagnose the root cause.

Workaround

To generate an additional log to debug this issue in detail:

1. In the EM Console, add the `b2b.additionalDebugInfo` server property with a value of `logDir=<directory for schema files>`.

   When the exception error occurs, the logs have additional lines for debugging. The lines are prepended by `DebugForDuplicateAttribute`.

2. Open the diagnostic log found in the logDir directory. Search for the `DebugForDuplicateAttribute` lines to get more detailed information.

2.4 Oracle BAM Known Issues and Workarounds

Known issues and workarounds for Release 12*c* (12.2.1.*x*) of Oracle BAM are:

- Error When Creating a KPI
- Data Object Changes Not Reflected in Dashboard
- Time-Based Alerts Not Working
- Dimension Value Points Are Not Highlighted Together in the Scatter/Bubble View's Legend Area
- Newest Row Not Inserted in DO AlertHistory Page1 with Sorted Sent Col
- BAM JNDI Foreign Providers Are Not Created When You Add BAM to a Domain With Dynamic SOA Cluster
- Unresolvable Error When Deleting Views From Project Tree
- Alert Shows Active Even After Import

2.4.1 Error When Creating a KPI

Issue

When creating a new Key Performance Indicator (KPI) in BAM Composer, if you change the Threshold value to a non-default value, then you may receive an error when you click **create message** or **select user**.

Workaround

Apply patch 31466508.

2.4.2 Data Object Changes Not Reflected in Dashboard

Issue

If JET-based business views are used in a BAM dashboard, then enabling active data will not reflect any changes made to data objects in the BAM dashboard.

Workaround

None.

2.4.3 Time-Based Alerts Not Working

Issue

Oracle SOA Suite does not support BAM time-based alerts associated with business queries.

Workaround

Apply patch 30334074.

2.4.4 Dimension Value Points Are Not Highlighted Together in the Scatter/Bubble View's Legend Area

Issue

Bug number: 24905747

If you hover your cursor over a dimension in the scatter/bubble view's legend area, all the points with that dimension value are not highlighted at the same time. Note the following details about this issue:

- If you import a project with this sort of view from a 12.2.1 release, it does not show this issue until you resave the view. At this point, you see the view become corrupted.
- If you create a new project with new queries and views, there is no way to get the same display as in 12.2.1 (and in graphs in 12.1.3).

2.4.5 Newest Row Not Inserted in DO AlertHistory Page1 with Sorted Sent Col

Issue

Bug Number: 27321113

In some cases, a new row is not inserted in the DO AlertHistory data rows Page1 when the **Sent** column was sorted, but a row was inserted in Page2 or Page3 as snapshots.

Workaround

The data presented when sorting column-based tabular data (on the DO **Data** tab) orders what is seen on the page by the ascending/descending order of the column, but it doesn't apply that sort order on all the available rows and reload all the pages based on the new ordering. To sort a column by order, set **Order on Database** as a **Preferences** setting.

The default behavior of column sort is intentional and mainly for performance optimization. Using **Order on Database** may slow page refreshes if the volume of data is huge.

2.4.6 BAM JNDI Foreign Providers Are Not Created When You Add BAM to a Domain With Dynamic SOA Cluster

Issue

When adding BAM to the domain, some foreign JNDI providers are created. One of them, **BAMForeignJndiProvider**, is configured pointing to the SOA Cluster.

When the SOA Cluster is dynamic, that JNDI provider is not properly populated and the foreign JNDI providers are not created by the Configuration Wizard.

Workaround

After extending the domain to add BAM, two Foreign JNDI Providers must be created in the domain: **BAMForeignJNDIProvider** and **BPMForeignJNDIProvider**.

1. Create the **BAMForeignJNDIProvider**:
   a. Log in to the WebLogic Console and navigate to ***domain*** > **Environment** > **Services** > **Foreign JNDI Providers**.
   b. Click **New**.
   c. Change the name to **BAMForeignJNDIProvider** and click **Next**.
   d. Select SOA Cluster as the target. Click **Finish**. A Foreign JNDI Provider **BAMForeignJNDIProvider** is created.
   e. Click the **BAMForeignJNDIProvider** link.
   f. Under the General tab, enter the following properties:

      Initial Context Factory: `weblogic.jndi.WLInitialContextFactory`

      Provider URL: URL for the BAM Servers (for example, `t3://host1:9001,host2:9001`)
   g. Click **Save**.
   h. Click the **Links** tab. Create two links for each of the BAM persistence and configuration services as indicated in the table below:
   i. Restart the SOA Server (this is required, otherwise, the foreign JNDI does not work and you will get a stack overflow error).

Service	Local JNDI Name	Remote JNDI name
BAM Persistence service	`OracleBeam#oracle.beam.common.client.service.persistence.BeamPersistence`	`OracleBeam#oracle.beam.common.client.service.persistence.BeamPersistence`
BAM Config Service	`ConfigSession#oracle.beam.config.common.ConfigSession`	`ConfigSession#oracle.beam.config.common.ConfigSession`

2. Create the **BPMForeignJNDIProvider**:
   a. Log in to the WebLogic Console and click **Foreign JNDI providers** in the home page.
   b. Click **New**. Change the name to **BPMForeignJNDIProvider** and click **Next**.
   c. Select BAM cluster as the target. Click **Finish**. A Foreign JNDI Provider **BPMForeignJNDIProvider** is created.
   d. Click **BPMForeignJNDIProvider**.
   e. Under the **General** tab, enter the following properties:

      Initial Context Factor: `weblogic.jndi.WLInitialContextFactory`

      Provider URL: URL for the BPM Servers (for example, `t3://soahost1:8001,soahost2:8001`)
   f. Click **Save**.

g. Click the **Links** tab. Create the links for each of the BPM services listed in the table below.

h. Restart the BAM servers.

Service	Local JNDI Name	Remote JNDI Name
UserMetadataService	`UserMetadataService`	`UserMetadataService`
TaskEvidenceService	`TaskEvidenceServiceBean`	`TaskEvidenceServiceBean`
RuntimeConfigService	`RuntimeConfigService`	`RuntimeConfigService`
BPMProcessModelService	`ejb/bpm/services/ProcessModelServiceBean`	`ejb/bpm/services/ProcessModelServiceBean`
BPMProcessMetadataService	`ejb/bpm/services/ProcessMetadataServiceBean`	`ejb/bpm/services/ProcessMetadataServiceBean`
BPMProcessDashboardService	`ejb/bpm/services/ProcessDashboardServiceBean`	`ejb/bpm/services/ProcessDashboardServiceBean`
BPMProcessAnalyticsServiceBean	`ejb/bpm/services/ProcessAnalyticsServiceBean`	`ejb/bpm/services/ProcessAnalyticsServiceBean`
BPMInstanceQueryService	`ejb/bpm/services/InstanceQueryServiceBean`	`ejb/bpm/services/InstanceQueryServiceBean`
BPMInstanceManagementService	`ejb/bpm/services/InstanceManagementServiceBean`	`ejb/bpm/services/InstanceManagementServiceBean`
BPMUserAuthenticationService	`ejb/bpm/services/BPMUserAuthenticationServiceBean`	`ejb/bpm/services/BPMUserAuthenticationServiceBean`
TaskService	`ejb/bpel/services/workflow/TaskServiceBean`	`ejb/bpel/services/workflow/TaskServiceBean`
TaskMetadataService	`ejb/bpel/services/workflow/TaskMetadataServiceBean`	`ejb/bpel/services/workflow/TaskMetadataServiceBean`
BPMDataObjectSecurityService	`BPMAnalytics#oracle.bpm.metrics.dataobject.security.IBPMDataObjectSecurityServiceRemote`	`BPMAnalytics#oracle.bpm.metrics.dataobject.security.IBPMDataObjectSecurityServiceRemote`

2.4.7 Unresolvable Error When Deleting Views From Project Tree

Issue

Bug number: 23236155

When deleting artifacts from a project tree when the Dashboard accessing the same artifact is open causes unresolvable error.

Workaround

Delete the artifact after closing the dashboard.

2.4.8 Alert Shows Active Even After Import

Issue

Bug Number: 26575064

Alert shows active in the Designer tab even after successful project import. The root cause is the alert 'Run As' user does not exist on the target system. The error code `Security:090938` is printed in the diagnostic logs.

Workaround

None.