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Preface

Release Notes for Oracle SOA Suite describes new features for Release 12c (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.

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
Conventions

The following text conventions are used in this document:

<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>boldface</strong></td>
<td>Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.</td>
</tr>
<tr>
<td><em>italic</em></td>
<td>Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.</td>
</tr>
<tr>
<td><code>monospace</code></td>
<td>Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>
What's New in This Guide

This is a new guide for the 12c (12.2.1.3.0) release.

For release-related information and details about known issues and workarounds for previous releases, refer to Known Issues and Workarounds on OTN.
1

New Features

Note:

Screens shown in this guide may differ slightly from your implementation. Any differences are cosmetic.

New features for Release 12c (12.2.1.x) of Oracle SOA Suite 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.

1.1 New Features in Oracle SOA for Healthcare

New features for Release 12c (12.2.1.x) of Oracle SOA for Healthcare 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 12c (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 12c (12.2.1.x) of Oracle BAM.
2

Known Issues and Workarounds

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

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

2.1 SOA Core Known Issues and Workarounds

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

- Payload Restriction in REST Binding
- NullPointerException While Deploying a Composite
- oracle.mds.core.MetadataNotFoundException: MDS-00013 Exception for Bulk Recovery Request
- Invalid Composite Error When Migrating SOA Composite from 11g 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
- 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

2.1.1 Payload Restriction in REST Binding

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.
2.1.2 NullPointerException While Deploying a Composite

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. This could happen due to the browser you are using.

2.1.3 oracle.mds.core.MetadataNotFoundException: MDS-00013 Exception for Bulk Recovery Request

Issue
Bug Number: 27272902
Impacted Releases: All
Impacted Platforms: All

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

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

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

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

Issue
Bug Number: 27175899
Impacted Releases: All
Impacted Platforms: All

When you migrate a SOA composite applications from 11g to 12c, 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. Verify that the technologyScope attribute is included in the .jpr file before you attempt the migration to 12c.
Add the following code snippet in the .jpr file after the close tag of <list n="contentSets">:

```xml
<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>
```
2.1.5 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.

2.1.6 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.

2.1.7 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.
2.1.8 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.

2.1.9 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.

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

**Issue**

Bug Number: 24558686

Impacted Releases:

Impacted Platforms:

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.
2.1.11 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" pre-requisite 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.

2.1.12 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

2.1.13 Invalid Username/Password - ORA-01017

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.

2.2 Oracle B2B Known Issues and Workarounds

Known issues and workarounds for Release 12c (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

2.2.1 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 EM property should follow this format: `logDir=<directory where the file will be written>`. The directory name is not case-sensitive.

2.2.2 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.

### 2.3 Oracle BAM Known Issues and Workarounds

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

- **Dimension Value Points Are Not Highlighted Together in the Scatter/Bubble View's Legend Area**
- **Unresolvable Error When Deleting Views From Project Tree**
- **Alert Shows Active Even After Import**
- **Newest row Doesn't Insert in DO AlertHistory Data Rows**

#### 2.3.1 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.

#### 2.3.2 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**

There is no workaround.

#### 2.3.3 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.

### 2.3.4 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 in 12c (12.2.1.4), there is no way to get the same display as in 12.2.1 (and in graphs in 12.1.3).