Oracle® Fusion Middleware

Release Notes for Oracle Service Bus

12*c* (12.2.1.4.0)
E95449-04
March 2021

Oracle Fusion Middleware Release Notes for Oracle Service Bus, 12*c* (12.2.1.4.0)

E95449-04

Copyright © 2017, 2021, Oracle and/or its affiliates.

Primary Author: Oracle Corporation

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software" or "commercial computer software documentation" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government’s use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

Preface

Audience v
Documentation Accessibility v
Related Documents v
Conventions v

1 New Features

2 Deprecated Features

3 Known Issues and Workarounds

3.1 DiffTool Utility Output Includes Invalid Links to Documentation 3-2
3.2 Longer startup time when more alerts 3-2
3.3 OSB REST service returns empty string instead of null 3-2
3.4 ZipFileIndex leak after import/delete jejb transport proxy service 3-3
3.5 Setting of Proxy Service: cannot modify managed server 3-4
3.6 WSA headers removed on outbound request 3-4
3.7 Bean has null package error when importing aproject with a JEJB transport in PS 3-5
3.8 Encryption login is not implemented for static user name/ password of Service Account of OSB composite 3-5
3.9 JMS Transport When Using MQ Series as Foreign JMS Server Requeues Empty Messages 3-5
3.10 MQ Channel Abended Due to Incorrect OSB XA Sequence 3-6
3.11 SOAP Content validation not being enforced 3-6
3.12 System property to enforce restriction 3-6
3.13 Generated WSDL has different port name 3-7
3.14 Siebel component not supported for Oracle Service Bus Console 3-7
3.15 Incorrect Migration Policy In UMSJMSJDBCSTORE_AUTO_2 After OSB Extension 3-8

3.16 Domain Creation Fails If the Correct Server Groups Are Not Selected While Configuring OSB and SOA 3-8
3.17 An Incorrect config.xml File Is Generated While Extending a SOA Cluster with OSB 3-9
3.18 JMS resource cannot be deleted (Dynamic Cluster) 3-9
3.19 XQuery failed — Pipeline Exception 3-9
3.20 OSB-DC Requests fail during ScaleDown 3-10
3.21 Properties window not showing property of selected component for the two edge scenarios 3-10
3.22 NetSuite Adapter is not displayed in the Design view of JDev 3-11
3.23 JAX-RPC template is now optional for Service Bus Domains 3-11

Preface

Release Notes for Oracle Service Bus describes new features for Release 12*c* (12.2.1.*x*) of Oracle Service Bus, 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.

Audience

This document is intended for administrators and developers who work with Oracle Service Bus.

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 Service Bus information, see Oracle Service Bus.
- For Oracle SOA Suite information, see Oracle SOA Suite.
- For versions of platforms and related software for which Oracle products are certified and supported, review the Certification Matrix on OTN.

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

New features for Release 12*c* (12.2.1.*x*) of Oracle Service Bus are described in the following guides:

- For developer-related features, see What's New in This Guide in *Developing Services with Oracle Service Bus*.
- For administrator-related features, see What's New in This Guide in *Administering Oracle Service Bus*.

2
Deprecated Features

A deprecated feature for Release 12*c* (12.2.1.*x*) of Oracle Service Bus is:

- The redirection of `sbconsole` to `servicebus` is deprecated. If you log in to `http://`*`OSB installed machine`*`:7001/sbconsole` it will no longer redirect to `http://`*`OSB installed machine`*`:7001/servicebus`. This type of redirection can aid phishing attacks.

3
Known Issues and Workarounds

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

- DiffTool Utility Output Includes Invalid Links to Documentation
- Longer startup time when more alerts
- OSB REST service returns empty string instead of null
- ZipFileIndex leak after import/delete jejb transport proxy service
- Setting of Proxy Service: cannot modify managed server
- WSA headers removed on outbound request
- Bean has null package error when importing aproject with a JEJB transport in PS
- Encryption login is not implemented for static user name/ password of Service Account of OSB composite
- JMS Transport When Using MQ Series as Foreign JMS Server Requeues Empty Messages
- MQ Channel Abended Due to Incorrect OSB XA Sequence
- SOAP Content validation not being enforced
- System property to enforce restriction
- Generated WSDL has different port name
- Siebel component not supported for Oracle Service Bus Console
- 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
- JMS resource cannot be deleted (Dynamic Cluster)
- XQuery failed — Pipeline Exception
- OSB-DC Requests fail during ScaleDown
- Properties window not showing property of selected component for the two edge scenarios
- NetSuite Adapter is not displayed in the Design view of JDev
- JAX-RPC template is now optional for Service Bus Domains

3.1 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 Service Bus*.

3.2 Longer startup time when more alerts

Issue

Bug Number: 28249908

Impacted Releases: All

Impacted Platforms: All

It is expected that startup times for managed servers will be longer when more alerts are generated.

3.3 OSB REST service returns empty string instead of null

Issue

Bug Number: 27848408

Impacted Releases: 12c

Impacted Platforms: All

OSB REST service returns empty string instead of null after upgrade to 12.2.1.3, for example `{"date": ""}` because Fabric bug 24309280 changed the behavior.

Workaround

There is a new system property, `oracle.osb.json.nillable.support`The default is false, which disables the nillable feature of JSon Translator when calling it from Service Bus. When this variable is not set, or is set to false, an empty value is returned as null. When this property is set to true, an empty value is returned as “ “.

3.4 ZipFileIndex leak after import/delete jejb transport proxy service

Issue

Bug Number: 27618545

Impacted Releases: 12c

Impacted Platforms: All

If there is leak in ZipFileIndex after importing or deleting jejb transport proxy service, the workaround is to turn off compiler argument `value="-XDuseOptimizedZip=false"`.

Workaround

1. Set the compiler option for `build.xml` in `jejb-transport.jar`.

```
find ~/ -name "jejb-transport.jar" -ls 1454243  336 -rw-r-----   1
oracle   oracle     340486 Aug 20  2017
 /refresh/home/Oracle/Middleware/Oracle_Home/osb/lib/transports/
jejb-transport.jar

cd $ORACLE_HOME/osb/lib/transports/

cp -p jejb-transport.jar jejb-transport.jar.ori

jar -xvf jejb-transport.jar com

cd com/bea/wli/sb/transports/jejb/

vi build.xml
```

2. Start the AdminServer.
3. Import or delete several times.

```
/refresh/home/Oracle/Middleware/Oracle_Home/oracle_common/
common/bin/wlst.sh
import.py
/refresh/home/Oracle/Middleware/Oracle_Home/oracle_common/
common/bin/wlst.sh
delete.py
```

4. Get the heap dump.

```
/etc/alternatives/jdk1.8.0_141/bin/jmap
-dump:format=b,file=/refresh/home/temp6/heap_20180411.hprof 15228
```

There is no ZipFileIndex object.

3.5 Setting of Proxy Service: cannot modify managed server

Issue

Bug Number: 27674034

Impacted Releases: 12c

Impacted Platforms: All

When you set the proxy service in JDeveloper, the Managed Server field is grayed out and cannot be modified. This causes OSB-381612 error at deploying the Service Bus project from JDeveloper, and the deployment fails.

The Managed Server field is only enabled if Service Bus is running in cluster mode. However, JDeveloper cannot determine whether Service Bus is running in a cluster or a non-cluster environment because the Weblogic server details are only given at deployment.

Workaround

1. Edit the proxy service source code in a text editor and add the managed server name to the `pollerTargetManagedServer` element.

   Example: `<sftp:pollerTargetManagedServer>osb_server1</ sftp:pollerTargetManagedServer>`
2. Save the source code.
3. Refresh the JDeveloper code.

   The value for the proxy server appears in the Managed Server field.
4. Retry the deployment

3.6 WSA headers removed on outbound request

Issue

Bug Number: 27229077

Impacted Releases: 12c

Impacted Platforms: All

Patch 23133629 contains a fix for Bug 21659900 which would change Service Bus to remove WSA headers from a request message only for OWSM policies with RM policy assertions. In the case when no RM policy assertions are used in the OWSM policy, all WSA headers on a request message are preserved. This is the correct behavior.

Workaround

Disable WSA headers for JDE web services from the SOA side after Patch 23133629 is applied, because the JDE web services cannot handle all of the preserved WSA headers on an incoming request message.

3.7 Bean has null package error when importing aproject with a JEJB transport in PS

Issue

Bug Number: 27473892

Impacted Releases: 12c

Impacted Platforms: All

“"Bean has null package" error when importing a project with a JEJB transport in PS. There is no product issue. The system is logging a warning and returning “false” which determines that the proxy is not a JAX-RS component. You can ignore this warning.

3.8 Encryption login is not implemented for static user name/ password of Service Account of OSB composite

Issue

Bug Number: 27068755

Impacted Releases: 12c

Impacted Platforms: All

Encryption login is not implemented for static user name and password of Service Account of OSB composite. The user name and password are saved as plain text in service account artifact.

Workaround

Encryption and decryption of static username and password of Service Account of OSB composite is available now through OSB Bundle Patches 12.2.1.1.0 and 12.2.1.3.0. When you apply the patch, username and password are saved as encrypted strings in service account artifact and decrypted to render on the UI when you open service account editor. Download and apply the OSB Bundle Patch 12.2.1.3.0 or 12.2.1.1.0 for your version.

3.9 JMS Transport When Using MQ Series as Foreign JMS Server Requeues Empty Messages

Issue

Bug Number: 27240842

Impacted Releases: 12c

Impacted Platforms: All

When you post a poison message (for example, an empty message), you can see the same message is dequeued and moved to backout queue, then is enqueued back to messaging queue and this continues in a loop as it is being redelivered forever.

Workaround

This is an known issue when using MQ Series for Foreign JMS server. The MQ backout queue feature does not complete/ commit message to the backout queue until the next successful message is processed/ committed.

3.10 MQ Channel Abended Due to Incorrect OSB XA Sequence

Issue

Bug Number: 27144719

Impacted Releases: 12c

Impacted Platforms: All

IBM MQSeries 7.1+ no longer requires the AsyncTimeoutDelist workaround to prevent a memory leak. As a result the AsyncTimeoutDelist workaround is now causing the MQ channel to become abended in certain situations.

Workaround

There is a new system property to allow you to revert to the original behavior if necessary, if you are running an older version of MQ. The new property is `Dweblogic.transaction.enableAsyncTimeoutDelist=true`.

3.11 SOAP Content validation not being enforced

Issue

Impacted Releases: 11g, 12c

SOAP 1.1 content validation is not being enforced in 11g. In 12c, it is not enforced unless OWSM is enabled.

3.12 System property to enforce restriction

Issue

Bug Number: 27178408

Impacted Releases: PS2, PS3

Impacted Platforms: All

During server startup, xmlbeans does stricter checking than other tools. This can cause recursion errors.

Workaround

To turn off particle restriction checking, pass the following system property during domain startup:

`-Dxmlbean.particlerestriction=false`.

3.13 Generated WSDL has different port name

Issue

Bug Number: 27178665

Impacted Releases: 12c

Impacted Platforms: All

When you create a WSDL based proxy service based on WSDL binding type, the Service Bus runtime automatically generates the service and port names when the effective WSDL is generated. Prior to release 12c, the service name was similar to `$WSDL_Binding_Name+Service+index`, where the index ranged from 1 to `Integer.MAX_VALUE`. Index was appended to ensure the uniqueness.

As part of the OWSM policy metadata decoupling project in release 12c, OWSM API required Service Bus to pass the service and port name for a service attached with OWSM policies. The code generating uniqueness became redundant given that an effective WSDL only has one single service and one single port. The logic was changed to remove the index. Currently, the Service/Port in the effective WSDL is similar to `$WSDL_Binding_Name+Service / $WSDL_Binding_Name+Port`.

The existing external system should be updated to point to the new service name and port.

3.14 Siebel component not supported for Oracle Service Bus Console

Issue

Bug Number: 25540557

Impacted Releases: PS1, PS2

Impacted Platforms: All

When creating a Proxy or Business Resource in the OSB Console, the Siebel adapter is not listed. The Siebel adapter is supported only in Design time on SOA and OSB JDeveloper.

Workaround

Design the composite on JDeveloper and deploy on the server to execute. After deployment, create the endpoint and the SOAP UI to execute the use case.

3.15 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>
```

3.16 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.

3.17 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.

3.18 JMS resource cannot be deleted (Dynamic Cluster)

Issue

Bug Number: 23729629

Impacted Releases: PS2

Impacted Platforms: All

In Service Bus, in the case of a dynamic cluster environment, you cannot delete JMS-related resources from the console. As a result, you cannot import an OSB configjar file. This is a known limitation in this release.

Workaround

There is no workaround at this time.

3.19 XQuery failed — Pipeline Exception

Issue

Bug Number: 24914440

Impacted Releases: PS1, PS2, PS3

Impacted Platforms: All

An exception may occur in the pipeline if you are using XQuery to extract information from an XPath. In previous versions, a pipeline supported taking an xml element as a whole to extract the value for an XQuery transformation. In this version, the pipeline needs stricter instructions to obtain the value.

Workaround

Add `/text()` to the statement to specify the value of the of the XML element rather than the node itself. For example:

```
$body/_pr:PROCESS_PO_007[1]/oag1:CNTROLAREA[1]/oag1:SENDER[1]/oag:LOGICALID[1]/
text()
```

3.20 OSB-DC Requests fail during ScaleDown

Issue

Bug Number: 24804809

Impacted Releases: PS2

Impacted Platforms: All

In a Service Bus Dynamic cluster with multiple servers, there could be failures during scaledown. As an example, assume Http clients are sending http requests to the application deployed on the dynamic cluster, and 200 users are sending requests simultaneously at about one request per second. When scaledown starts, which takes several minutes, about 100 requests from clients could fail to get responses.

Workaround

There is no workaround at this time.

3.21 Properties window not showing property of selected component for the two edge scenarios

Issue

Bug Number: 24518332

Impacted Releases: PS2

Impacted Platforms: All

When you first create a SOA Application & Project, do not close composite editors, and then create an Service Bus application and project, the properties window does not show the property of the selected component. When this happens, the workaround is to close JDEV and re-open to work with the Service Bus Application.

Workaround

This is no workaround at this time.

3.22 NetSuite Adapter is not displayed in the Design view of JDev

Issue

Bug Number: 24561618

Impacted Releases: PS2

Impacted Platforms: All

When you create a project in Service Bus Console that only has the Netsuite adapter as a BusinesService without any ProxyService configured, and the composite is imported from OSB Console to JDEV,the NetSuite Adapter in the Jdev is not listed in the External service area.

Workaround

There is no workaround at this time.

3.23 JAX-RPC template is now optional for Service Bus Domains

Issue

Bug Number: 23289709

Impacted Releases: PS1

Impacted Platforms: All

When you create a Service Bus domain, you select various templates to apply to the domain. The JAX-RPC option is no longer required. The only reason to use this option in new domains is to continue to use reliable WLS 9 policies. Upgraded domains will still require the JAX-RPC template, however, so dynamic clusters will not be available for upgraded domains.