

Oracle® Fusion Middleware

Release Notes for Oracle Business Process Management



12c (12.2.1.4.0)

E97084-05

April 2021

The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

ORACLE®

Oracle Fusion Middleware Release Notes for Oracle Business Process Management, 12c (12.2.1.4.0)

E97084-05

Copyright © 2010, 2019, 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	iv
Documentation Accessibility	iv
Related Documents	iv
Conventions	iv

1 New Features

2 Known Issues and Workarounds

2.1	Timeout Occurs Attempting to Send Notification to Email List	2-1
2.2	Error Occurs When Writing to a Space or Project: Repository is in read only mode	2-2
2.3	Migration of BPM Projects in Business Process Composer Fails During Upgrade from 11g to 12c (12.2.1.4.0)	2-2
2.4	soa-infra Not ACTIVE on SOA Server Start	2-3
2.5	Invalid Data Objects Appear in Database After Migration of BPM Projects from 11g to 12c	2-3
2.6	Error Occurs When Deploying a Human Task	2-3
2.7	Error Occurs When Submitting a Form	2-4
2.8	Approve and Reject Links in Email Notification Do Not Work in Microsoft Outlook	2-5
2.9	[Iphone 6 generic] Worklist / SOA Composer App Crashes on Launching	2-5
2.10	BPM Task List Contents Not Showing in Processportal	2-6
2.11	Waiting for Monitor Entry Error Message	2-6
2.12	Pending JDev Changes for Summary Field Mapping Feature	2-6
2.13	Web Forms Do Not Support Digital Signatures	2-7
2.14	Future Participant Editing Does Not Work on Duplicate Participant	2-7
2.15	Group Still Exists After Deletion in Workspace	2-7
2.16	JDeveloper Verbal Rules Fact Usage Not Honored	2-8

Preface

Release Notes for Oracle Business Process Management describes new features for Release 12c (12.2.1.x) of Oracle Business Process Management and its components such as Oracle BPM Studio, Oracle BPM Composer, Oracle BPM Workspace, and Oracle Business Rules. It 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 Business Process Management components.

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 Business Process Management information, see Oracle Business Process Management.
- 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.
<i>italic</i>	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

There are no new features for Release 12c (12.2.1.x) of Oracle Business Process Management.

2

Known Issues and Workarounds

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

- [Timeout Occurs Attempting to Send Notification to Email List](#)
- [Error Occurs When Writing to a Space or Project: Repository is in read only mode](#)
- [Migration of BPM Projects in Business Process Composer Fails During Upgrade from 11g to 12c \(12.2.1.4.0\)](#)
- [soa-infra Not ACTIVE on SOA Server Start](#)
- [Invalid Data Objects Appear in Database After Migration of BPM Projects from 11g to 12c](#)
- [Error Occurs When Deploying a Human Task](#)
- [Error Occurs When Submitting a Form](#)
- [Approve and Reject Links in Email Notification Do Not Work in Microsoft Outlook](#)
- [\[Iphone 6 generic \] Worklist / SOA Composer App Crashes on Launching](#)
- [BPM Task List Contents Not Showing in Processportal](#)
- [Waiting for Monitor Entry Error Message](#)
- [Pending JDev Changes for Summary Field Mapping Feature](#)
- [Web Forms Do Not Support Digital Signatures](#)
- [Future Participant Editing Does Not Work on Duplicate Participant](#)
- [Group Still Exists After Deletion in Workspace](#)
- [JDeveloper Verbal Rules Fact Usage Not Honored](#)

2.1 Timeout Occurs Attempting to Send Notification to Email List

Issue

Impacted Releases: 12.2.1.4.0 and later releases

Impacted Platforms: All

When a Single Participant is assigned to a large comma-separated list of participants, the notifications are not received by the participants.

Solution

For a participant list or more than 20 users, a best practice is to use a group or an application role instead of a large comma-separated list of individual participants.

2.2 Error Occurs When Writing to a Space or Project: Repository is in read only mode

Issue

Impacted Releases: 12.2.1.3.0 and later releases

Impacted Platforms: All

In 12c, spaces and projects are created in Business Process Composer and are saved in SVN. One node is the master and other nodes act as workers. The master node is responsible for the create and edit operations and is also responsible for synchronizing changes to all the worker nodes. If the master node goes down before it can synchronize with worker nodes, any write operation to the space or project fails with one of the following errors:

```
Repository is in read only mode
```

```
BPM-0:Resource repositoryID not found
```

where *repositoryID* is the space or project internal ID.

Solution

This issue is resolved when a minimum number of nodes in the cluster are running again:

- In a two-node cluster, this issue exists as long as the master node is down. When the master node is running again, this issue is resolved, regardless of whether or not the worker node is up.
- In a cluster with more than two nodes, at least $n/2+1$ nodes must be running, including the node on which the space or project was created. For example, in a 4-node or 5-node cluster, a minimum of 3 running nodes resolves the issue; in a 6-node or 7-node cluster, a minimum of 4 running nodes resolves the issue.

2.3 Migration of BPM Projects in Business Process Composer Fails During Upgrade from 11g to 12c (12.2.1.4.0)

Issue

Bug Number: 30273495

Impacted Releases: 12.2.1.4.0 and later releases

Impacted Platforms: All

When you upgrade Oracle Business Process Management from 11g to 12c (12.2.1.4.0), BPM projects in Business Process Composer may not migrate successfully.

Workaround

1. Before starting the upgrade, export all BPM Projects from Business Process Composer to make a backup. See Importing and Exporting Projects.
2. Complete the upgrade from 11g to 12c (12.2.1.4.0), as described in Upgrading SOA Suite and Business Process Management.
3. Open the backed up 11g BPM projects in JDeveloper 12c (12.2.1.4.0).
4. Follow the prompts in JDeveloper to migrate the BPM projects to 12c (12.2.1.4.0).
5. After the migration completes, import the migrated BPM projects into Business Process Composer. See Importing and Exporting Projects.

2.4 soa-infra Not ACTIVE on SOA Server Start

Issue

Bug Number: 30202866

Impacted Releases: 12.2.1.4.0 and later releases

Impacted Platforms: All

Upon starting the SOA server, the soa-infra application may intermittently fail to change to ACTIVE state.

Workaround

Restart the SOA server.

2.5 Invalid Data Objects Appear in Database After Migration of BPM Projects from 11g to 12c

Issue

Bug Number: 23588725

Impacted Releases: 12.1.3, 12.2.1, 12.2.1.1.0 and later releases

Impacted Platforms: All

When you migrate BPM projects from 11g to 12c, a few TRS packages do not get migrated. These TRS packages will appear as invalid data objects in the database.

Workaround

No workaround required as these unmigrated TRS packages do not cause any loss of functionality.

2.6 Error Occurs When Deploying a Human Task

Issue

Bug Number: 29665677

Impacted Releases: 12.2.1.4.0 and later releases

Impacted Platforms: All

When you deploy a project that contains a process with a human task, an error appears in the server logs:

1. Create a project, then create a process, and then add a human task to the process.
2. Deploy the project.

The server logs display an entry with an error similar to the following:

```
<Apr 18, 2019 12:38:04,549 AM PDT> <Error>
<oracle.soa.services.workflow.soa>
<BEA-000000> <<WorkflowServiceEngine.undeploy(ComponentModel
componentModel)
> Error occurred during undeployment of human task component
ApprovalTask,
taskDefinitionId default/DefaultRequestApproval!5.0/ApprovalTask. The
error
was: Issue while login> java.lang.RuntimeException: Issue
```

Workaround

The error does not impact the deployment, or the functionality of the project. You can ignore this error.

2.7 Error Occurs When Submitting a Form

Issue

Bug Number: 28977414

Impacted Releases: 12.2.1.4.0 and later releases

Impacted Platforms: All

An error message error appears after you submit a form:

1. Create a project, then create a process, then create a form, and use the form in the process.
2. Deploy the project.
3. Log in to Workspace with a user that can access the form.
4. Fill in the form, and submit it.

An error message appears, and the server logs display an entry with an error similar to the following:

```
[2018-11-27T05:34:53.879-08:00] [soa_server1] [ERROR] []
[oracle.adfinternal.view.faces.context.RichExceptionHandler] [tid:
[ACTIVE].ExecuteThread: '11' for queue: 'weblogic.kernel.Default
(self-tuning)'] [userId: jcooper1] [ecid:
dbcad664-e37a-415b-b48a-badd2e3d3dd7-00001836,0] [APP:
OracleBPMWorkspace]
```

```
[partition-name: DOMAIN] [tenant-name: GLOBAL] [DSID:
0000MTLJYI3FW7VLI29Dif1RzBVs00000H] ADF_FACES-30200:For more
information,
please see the server's error log for an entry beginning with: The
UIViewRoot
is null. Fatal exception during PhaseId: RESTORE_VIEW 1.[]
```

Workaround

Start the WLS server with the following system property: -
Dweblogic.oif.serialFilter=maxdepth=250

2.8 Approve and Reject Links in Email Notification Do Not Work in Microsoft Outlook

Issue

Bug Number: 18858843

Impacted Releases: 12.1.3, 12.2.1, 12.2.1.1.0 and later releases

Impacted Platforms: All

Approve and Reject links in Thai, Arabic, and Korean languages do not open in an email notification when you use Microsoft Outlook as the email client. This is a limitation of Microsoft Outlook. This happens when the email body length exceeds the maximum limitation in Microsoft Outlook. <http://support.microsoft.com/kb/q182985>. This issue might also occur in other languages if the task title in the email subject is too long.

Workaround

Use the Mozilla Thunderbird email client to open tasks with a long subject line.

2.9 [Iphone 6 generic] Worklist / SOA Composer App Crashes on Launching

Issue

Bug Number: 21764484

Impacted Releases: 12.1.3, 12.2.1, 12.2.1.1.0 and later releases

Impacted Platforms: All

The Worklist application crashes on launch on iPhone 6 plus while using the Safari browser.

Workaround

Upgrade to a newer IOS version (for example, 8.4.1).

2.10 BPM Task List Contents Not Showing in Processportal

Issue

Bug Number: 21772408

Impacted Releases: 12.1.3, 12.2.1, 12.2.1.1.0 and later releases

Impacted Platforms: All

If Oracle HTTP Server is not used, the integration of BPM Task information into Oracle Webcenter does not work.

Workaround

For the integration of Oracle BPM into Oracle WebCenter to work, use Oracle HTTP Server on both installations.

2.11 Waiting for Monitor Entry Error Message

Issue

Bug Number: 21444641

Impacted Releases: 12.1.3, 12.2.1, 12.2.1.1.0 and later releases

Impacted Platforms: All

You may see an error message similar to the following indicating a long block chain at `oracle.bpm.bpmn.engine.service.BPMNAuditTrail.logEvent`:

```
"[ACTIVE] ExecuteThread: '223' for queue: 'weblogic.kernel.Default (self-tuning)'" #2239 daemon prio=5 os_prio=0 tid=0x00000001d631000 nid=0x5da6 waiting for monitor entry [0x000000005ff00000]
java.lang.Thread.State: BLOCKED (on object monitor) at
oracle.bpm.bpmn.engine.service.audit.persistence.AuditKeyGenerator.nextId(AuditKeyGenerator.java:116) - waiting to lock <0x000000072f41ad70> (a
java.lang.Object) at
oracle.bpm.bpmn.engine.service.BPMNAuditTrail.logEvent(BPMNAuditTrail.java:125)
```

Workaround

Increase the `AuditEventBatchSize` from 10 to 50. In Enterprise Manager, `AuditEventBatchSize` can be found under SOA Administration / BPMN Properties.

2.12 Pending JDev Changes for Summary Field Mapping Feature

Issue

Bug Number: 17039859

Impacted Releases: All Releases

Impacted Platforms: All

When creating a summary field mapping, when the Insert Into Expression button is clicked, BPM Studio does not warn if a payload expression is not present in the xpath expression.

Workaround

No workaround available

2.13 Web Forms Do Not Support Digital Signatures

Issue

Bug Number: 16992692

Impacted Releases: All Releases

Impacted Platforms: All

Web forms currently do not support digital signatures.

Workaround

No workaround available

2.14 Future Participant Editing Does Not Work on Duplicate Participant

Issue

Bug Number: 13990543

Impacted Releases: 12.1.3, 12.2.1, 12.2.1.1.0 and later releases

Impacted Platforms: All

When a substitution rule is used in a task, the resulting participant list may include duplicate participants that can't be edited.

Workaround

No workaround available.

2.15 Group Still Exists After Deletion in Workspace

Issue

Bug Number: 21470654

Impacted Releases: 12.1.3, 12.2.1, 12.2.1.1. and later releases

Impacted Platforms: All

After deleting an approval group in Process Workspace, the approval group still exists.

Workaround

Repeat the deletion. The approval group is deleted on the second attempt.

2.16 JDeveloper Verbal Rules Fact Usage Not Honored

Issue

Bug Number: 21310445

Impacted Releases: 12.1.3, 12.2.1, 12.2.1.1 and later releases

Impacted Platforms: All

Verbal rules will work only with auto-generated business phrases. When creating verbal rules that include other business phrases used for input/output, error messages in BPM Studio are generated indicating that the business phrases are unreferenced, even though they have been declared. For example, you might see an error message similar to:

```
RUL-05163: The fact type "myFact" is not used in any ruleset called by  
this decision function.
```

```
RUL-05164: The fact type "myFact2" is referenced, but is not asserted  
nor input.
```

Workaround

There is no workaround available.