

Oracle® Application Integration Architecture

Release Notes

Release 12.2

E70995-01

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This document provides release notes for Oracle Application Integration Architecture release 12.2.

This document contains the following sections:

- [New Features](#)
- [Fixes in This Release](#)
- [Known Problems](#)

New Features

Release 12.2 includes changed functionality in the following areas:

- Simplified installation and packaging. See "[Simplified Installation and Packaging](#)".
- Compatibility with Oracle Fusion Middleware 12c. See "[Compatibility with Oracle Fusion Middleware 12c](#)".

Release 12.2 delivers the following pre-built integrations:

- Communications Order to Cash with options for:
 - OSM
 - Oracle Communications Billing and Revenue Management (BRM)
 - Siebel CRM
- Siebel CRM Integration Pack for Oracle Communications Billing and Revenue Management: Agent Assisted Billing Care
- Product Master Data Management with options for:
 - BRM
 - Siebel CRM
 - Oracle Communications Pricing Design Center (PDC)
 - Oracle Communications Design Studio

For full details about features and functionality, see the implementation guides for each pre-built integration and *Oracle AIA Installation Guide*.

Simplified Installation and Packaging

Release 12.2 provides a simplified installation process for all pre-built integrations and simplified packaging for the Communications Order to Cash pre-built integration.

Simplified Installation

Release 12.2 provides all Oracle AIA software in one installation package.

In previous releases, the Oracle AIA installation was a two-step process: First you installed the Oracle AIA Foundation Pack and then you installed and configured the pre-built integrations.

In release 12.2, because all foundational components are bundled within Oracle Service Oriented Architecture (SOA) Suite and the pre-built integrations, you install and configure all Oracle AIA software in one step.

Simplified Packaging

Release 12.2 provides new packaging and deployment for the Communications Order to Cash pre-built integration options.

In previous releases, the pre-built integration options aligned with business processes, such as Order to Bill, Order to Activate, and Order to Cash.

In release 12.2, the pre-built integration options align with the integrated applications with the following options:

- Communications Order to Cash for Siebel CRM
- Communications Order to Cash for OSM
- Communications Order to Cash for BRM

The Oracle AIA Installer and Configuration Wizard support these changes.

Compatibility with Oracle Fusion Middleware 12c

All pre-built integrations delivered with release 12.2 are built on Fusion Middleware 12c, which includes new Circuit Breaker functionality for increased resiliency.

See the Oracle AIA compatibility matrix available from the My Oracle Support for details about compatible version numbers:

<http://support.oracle.com/epmos/faces/DocumentDisplay?id=2226851.1>

You can also search for Oracle AIA and Oracle Communications integration packs on the **Certifications** tab of My Oracle Support.

Fixes in This Release

[Table 1](#) lists fixed issues and provides a brief description of the resolution.

Table 1 *Fixes in Release 12.2*

SR Number	Bug Number	Description
3-9856841511	20074524	The undeploy scripts for the Agent Assisted Billing Care pre-built integration did not work due to incorrect commands in the AABCUndeployConditionalPolicy.xml script. This issue has been fixed.
3-11361940541	21898705	For the Master Data Management pre-built integration option, the rate name in Oracle Communications Pricing Design Center (PDC) was always Pricing , regardless of what was entered in Oracle Product Hub. This issue has been fixed and the Product Hub value is used.

Table 1 (Cont.) Fixes in Release 12.2

SR Number	Bug Number	Description
3-11927560631	22591672	For the Agent Assisted Billing Care pre-built integration, Oracle Data Integrator web services were called synchronously, resulting in Oracle AIA processes hanging indefinitely and generating errors. This issue has been fixed and the web services are called asynchronously.
3-11354709491	21840865	For the Order to Cash pre-built integration, hooks for customizing the input for BRM opcodes in the Oracle AIA XSLTs were limited. This issue has been fixed and new hooks have been added to customize the input for the following opcodes: <ul style="list-style-type: none"> ■ PCM_OP_MODIFY_CUSTOMER ■ PCM_OP_SUBSCRIPTION_PURCHASE_DEAL
3-10995886281	21520797	For the Order to Cash pre-built integration, the UpdateSalesOrderOSMCFSCommsJMSConsumer mediator process did not honor the first in, first out sequence of order updates, resulting in incorrect order status in Siebel CRM. This issue has been fixed and the mediator process now uses a best effort sequence.
3-10165201201	20649835	For the Agent Assisted Billing Care pre-built integration, dates were inconsistent for invoices synchronized between BRM and Siebel CRM due to an offset configured in Oracle AIA. This issue has been fixed and the offset has been removed.

Known Problems

This section describes the known problems and fixes that apply to release 12.2.

Known Problems for Multiple Pre-Built Integrations

The known problems in this section apply to multiple pre-built integrations.

Configuration Wizard Fails on Windows

BugDB number: 25246380

This problem applies to all pre-built integrations.

When installing Oracle AIA on Windows, the Configuration Wizard fails when it attempts to run the SOA createStore utility.

There is no workaround for this problem.

Not All Agent Assisted Billing Care Services Undeployed

BugDB number: 23053792

This problem applies to the pre-built integration for Agent Assisted Billing Care when the pre-built integration for Order to Cash is also deployed.

When undeploying the pre-built integration for Agent Assisted Billing Care after you have undeployed the pre-built integration for Order to Cash, some Siebel CRM services are not undeployed.

To resolve this problem, restart the Oracle WebLogic servers and the database before running the **undeployAABC.sh** script.

Undeployment Fails

BugDB number: 25371250

This problem applies to all pre-built integrations.

When undeploying the pre-built integrations, if you have never restarted the WebLogic servers and database after deploying the pre-built integrations, the undeployment scripts fail.

To resolve this problem, restart the WebLogic servers and the database before running the undeployment scripts.

Oracle Web Services Manager Policy Manager in Admin State and Managed Server Slow to Start After Upgrade

This problem applies to pre-built integrations that use the BRM JCA Resource Adapter.

After upgrading to Oracle AIA 12.2, if you are using a BRM JCA Resource Adapter of version 7.5 with patch set 12 or earlier, the wsm-pm component is in the Admin state and the managed server is slow to start.

To resolve this problem:

1. Log in to the WebLogic Server Administration console.
2. From the Domain Structure tree, select **Deployments**.
3. From the table of deployments, select **OracleBRMJCA14Adapter**.
You may need to page through the table to locate this deployment.
4. In the **Deployment Order** field, enter **100**.
5. Click **Save**.
6. Restart the managed server.

Known Problems for Communications Order to Cash

The known problems in this section apply only to the Communications Order to Cash pre-built integration.

AIASecurityConfigurationProperties.xml Does Not Exist

BugDB number: 22754867

After running the deployment script for the Communications Order to Cash pre-built integration option for BRM, the following error message appears in the deployment log file:

```
AIASecurityConfigurationProperties.xml does not exist in  
Install_directory/comms_  
home/source/soainfra/apps/services/industry/Communications/BRM/ProviderABCS/Create  
ReceivedPaymentListBRMCommsProvABCSImpl/SOA
```

where *Install_directory* is the directory where you installed Oracle AIA.

This error appears because, although the **AIASecurityConfigurationProperties.xml** file is no longer delivered with Oracle AIA, the SOA deployment tool still checks for

the file and adds the error message when it fails to find the file. Because the missing file does not interfere with deployment or functionality, you can ignore this error.

Missing Test Orchestration Process Connection Factories Preventing Order Processing

If you are deploying the Order to Cash for Siebel CRM and Order to Cash for BRM pre-built integration options and are using your own order management system (other than OSM), you must deploy the required connection factories for the test orchestration process or orders will fail.

Note: If you have also deployed the Order to Cash for OSM pre-built integration option, this problem does not apply.

To resolve this problem:

1. Create an XML file containing the following:

```
<?xml version="1.0"?>
<DeploymentPlan component="O2C" version="12.0">
<Configurations>
<ManagedServer wlserver="pips.O2C" action="shutdown" failonerror="true"/>
<JMSConnectionFactory connFacName="COMMS_ORDERORCHESTRATION_PRODUCER"
connFacJNDI="jms/aia/COMMS_ORDERORCHESTRATION_PRODUCER"
jmsModuleName="AIAJMSModule" jmsSubDeploymentName="AIASubDeployment"
action="create" wlserver="pips.O2C" isXA="true"/>
<JmsAdapter jndi-name="eis/wljms/COMMS_ORDERORCHESTRATION_PRODUCER"
connection-fac-Location="jms/aia/COMMS_ORDERORCHESTRATION_PRODUCER"
isTopic="false" isTransacted="false" action="create" wlserver="pips.O2C"/>
<JMSConnectionFactory connFacName="COMMS_ORDERORCHESTRATION_CONSUMER"
connFacJNDI="jms/aia/COMMS_ORDERORCHESTRATION_CONSUMER"
jmsModuleName="AIAJMSModule" jmsSubDeploymentName="AIASubDeployment"
action="create" wlserver="pips.O2C" isXA="true"/>
<JmsAdapter jndi-name="eis/wljms/COMMS_ORDERORCHESTRATION_CONSUMER"
connection-fac-Location="jms/aia/COMMS_ORDERORCHESTRATION_CONSUMER"
isTopic="false" isTransacted="false" action="create" wlserver="pips.O2C"/>
<ManagedServer wlserver="pips.O2C" action="start" failonerror="true"/>
</Configurations>
</DeploymentPlan>
```

2. Save the file as **DeployTOPConnFactories.xml**.

3. Create one of the following scripts, depending on your environment:

- For UNIX, create a script named **deploy.sh** containing the following:

```
source $COMMS_HOME/bin/commsenv.sh
ant -f $SOA_HOME/aiafp/Install/AID/AIAInstallDriver.xml
-DDeploymentPlan=New_DP_Path -DPropertiesFile=$DOMAIN_
LOCATION/soa/aia/bin/AIAInstallProperties.xml
```

- For Windows, create a script named **deploy.bat** containing the following:

```
source %COMMS_HOME%\bin\commsenv.bat
ant -f %SOA_HOME%\aiafp\Install\AID\AIAInstallDriver.xml
-DDeploymentPlan=New_DP_Path -DPropertiesFile=%DOMAIN_
LOCATION%\soa\aiabin\AIAInstallProperties.xml
```

where *New_DP_Path* is the path to the newly-created **DeployTOPConnFactories.xml** file.

4. From the command line, run **deploy.sh** or **deploy.bat**.

The required connection factories are created and deployed.

Known Problems for Product Master Data Management

The known problems in this section apply only to the Product Master Data Management pre-built integration.

Publication of Hierarchical Item Catalog Categories Fails

BugDB number: 25222766

When using Siebel version 8.1.1.16, publishing parent and child item catalog categories together from Oracle Product Hub to Siebel CRM fails.

To resolve this problem, publish the parent and child item catalog categories separately and manually create the hierarchy in Siebel CRM.

Note: This problem does not exist when using Siebel version 8.1.1.14.

Extra Child Component Created When Changing Product Name

BugDB number: 22390890

When changing the name, description, or long description of a product in Oracle Product Hub and resynchronizing the product to Siebel CRM, a new child component with the new name is created for the product in Siebel CRM and the original child component retains the original name.

To resolve this problem, delete the child component with the original name.

Product Lines with Multiple Products Overwriting Existing Products

BugDB number: 23031264

When synchronizing a product line with multiple products from Oracle Product Hub to Siebel CRM, the product synchronization succeeds, but each product associated with the product line overwrites the previous product. This results product lines with single products rather than the intended multiple products.

To avoid this problem, associate each product line with one product only. You can also associate a single product to multiple product lines.

This problem also applies to version 11.6.

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