Oracle Financial Services
Analytical Applications
Infrastructure
Installation Guide

Release 7.3.2.0.0
DOCUMENT CONTROL

<table>
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<tr>
<th>Version Number</th>
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<tr>
<td>Draft</td>
<td>Created: July 2012</td>
<td>Captured 7.3.2.0.0 Interim Release enhancement updates.</td>
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<tr>
<td>1.0</td>
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Executive Summary

This document includes the necessary instructions to apply 7.3.2.0.0 Interim Release and perform the required post update configurations. You can find the latest copy of this document in OTN library which includes all the recent additions/revisions (if any) done till date.
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1 OFSAAI Release 7.3.2.0.0

OFSAAI 7.3.2.0.0 Interim Release (IR) is cumulative and it includes all enhancements and bug fixes done since the GA release i.e. OFSAAI v7.3.

Conventions and Acronyms

<table>
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<th>Description</th>
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<tr>
<td>Screen Names are <em>italicized</em></td>
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<tr>
<td>Screen actions are indicated in <strong>Bold</strong></td>
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<tr>
<td>IR</td>
<td>Interim Release</td>
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<tr>
<td>ML</td>
<td>Maintenance Level Release</td>
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<td>OFSAAI</td>
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<td>AIX</td>
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1.1 Pre Installation Requirements

- You must have successfully installed OFSAAI 7.3 GA or 7.3.1.0.0 or 7.3.1.1.0.
- In case of fresh installation of OFSAAI, ensure the "Post Installation Configuration" of OFSAAI 7.3 GA has been completed prior to proceeding with the installation of this IR. If you are applying this IR on an existing working setup of OFSAAI 7.3.x, you may skip this step.
- Execute the below query in CONFIG schema:

```
SELECT DISTINCT(T1.V_BATCH_ID) FROM BATCH_MASTER T1, BATCH_MASTER T2 WHERE
REPLACE(TRANSLATE(T1.V_BATCH_ID,``\'~!@#$%^&*()+=\["]{}\|;"<>?,-.:',"'"', '#', ' ')) =REPLACE(TRANSLATE(T2.V_BATCH_ID,
```
This query returns a list of Batch Names with special characters. These characters are removed as part of the 7.3.2.0.0 patch installation. However, few constraints may fail to get enabled. Therefore, if the query returns a list of batch names, you need to manually remove and recreate the batches without using the special characters. For more information on creating batches, refer Operations > Batch Maintenance section of “OFSAAI 7.3.2.0.0 User Manual” available at OTN library.

1.2 How to Apply this Interim Release?

Refer to the following instructions to extract the contents of this IR.

1. Login to https://support.oracle.com/ and search for 16002708 under the Patches & Updates tab.

2. Download the 7.3.2.0.0 IR archive file and copy it to your AAI server in Binary mode.

**NOTE:** There are different archive files for different operating systems such as AIX, Solaris, and RHEL/OEL.

In case of a multi-tier deployment, the IR needs to be copied and installed on each tier in the following order:

- APP tier
- DB tier
- WEB tier

**NOTE:** If APP and WEB are in same tier, then execute the IR in DB tier first.

*Note that the terminology “tier” referenced in this document refers to the different components of AAI installed on any box. For example, DB tier would mean the box on which the “ficdb” components of AAI are installed, and does not mean the physical DB engine. Similarly, the WEB tier would mean the box on which the “ficweb” component resides and does not mean the physical web server/ J2EE engine. APP tier would mean the box on which the “ficapp” components reside.*

3. Shutdown all the OFSAAI Services. For more information refer “Start/Stop Infrastructure Services” section in OFSAAI 7.3 Installation and Configuration Guide available at OTN library.

4. Navigate to %FIC_HOME% folder and ensure that you have provided write permissions for all the files / folders (commonsscripts, EXEWebService, ficapp, ficweb, and ficdb) under it. In case of multi-tier installation, repeat this step on all tiers.

5. Extract the contents of the v7.3.2.0.0 IR archive file using the following command:
unzip <name of the file to be unzipped>

For example, unzip OFSAAI_7.3.2.0.0_Windows_Oracle11gR2.zip

6. Navigate to path OFSAAI_7.3.2.0.0_<OperatingSystem>_Oracle<Version> and ensure that OFSAAIUpdate.bat file has execute permission set.

**NOTE:** In case of a fresh installation, if you wish to enable the PR2 framework, update ENABLE_RRF value as N in params.conf file. By default, ENABLE_RRF value is set to AUTO. ENABLE_RRF value set to AUTO enables PR2 framework if PR2 has been used earlier, else RRF is enabled.


Verify if the IR is applied successfully by checking the log file generated in the folder. You can contact Oracle Support in case of any errors.

**NOTE:** You can ignore ORA-00001, ORA-00955, ORA-02260, and ORA-01430 errors in log file. If you observe any other warning/error reported in the log, bring it to the notice of Oracle Support.

8. Post successful installation of IR, download and apply the following one-off patch:

- Bug **15956177**: This facilitates to populate Alphanumeric Code for Numeric dimension members created from the UI.

9. If the web server used is Websphere Application Server, you will need to configure Filter Servlet by replacing the below tag in web.xml file present under %FIC_WEB_HOME%/webroot/WEB-INF:

```
<filter-mapping>
  <filter-name>FilterServlet</filter-name>
  <url-pattern>*.jsp</url-pattern>
</filter-mapping>

With:
```
<filter-mapping>
  <filter-name>FilterServlet</filter-name>
  <url-pattern>*.class</url-pattern>
</filter-mapping>
10. Navigate to \%FIC_WEB_HOME%\webroot\WEB-INF and edit the web.xml file to have the attribute metadata-complete="true" in the tag <web-app>, as shown below:

```xml
<web-app id="WebApp_ID" version="2.5"
xmlns="http://java.sun.com/xml/ns/javaee"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd" metadata-
complete="true">
```

11. (Optional) Make the necessary module specific configurations as mentioned in Optional Module Specific Configurations section.

If you wish to make these configurations at a later time, proceed with the following steps.

12. Generate the EAR/WAR file and deploy on to your configured J2EE container. Refer section OFSAII Application Deployment, for deploying the application on to J2EE container.

13. Restart OFSAII services. Refer section Starting Infrastructure Services, for information on restarting all the OFSAII services.

1.3 Optional Module Specific Configurations

This IR includes the following module and/or feature enhancements done since the GA release i.e. OFSAII v7.3. You may be required to do certain specific configurations (post successful IR update) in order to use these features. For more information on configuration of these features, refer to OFSAII 7.3.2.0.0 Administration Guide available at OTN library.

- Dimension Configuration: Alphanumeric and Numeric Codes
- UMM > Hierarchy Node Localization
- T2T and PR2 Query Performance Optimization
- Configure Data Quality Rule Approval Parameters
- Run Rule Framework Module Configuration
- Configure Forms xml to Execute Server Side Rule
- Data Element Filters Classification
- Filter Servlet
1.4 OFSAAI Application Deployment

Generate EAR/WAR file and redeploy the application on to the J2EE container (Websphere / Weblogic / Tomcat). For more information on generating and deploying EAR / WAR file, refer Post Installation Configuration section in OFSAAI 7.3 Installation and Configuration Guide.

NOTE: Ensure to clear the application cache as per the below instructions. This is applicable to all J2EE Containers (WebSphere, WebLogic, and Tomcat) and OS combination.

To clear the application cache, delete the files from the below location. Navigate to the following path depending on the WebServer configured:

- **Tomcat**: <Tomcat installation folder>/work/Catalina/localhost/<Application name>/org/apache/jsp
- **Weblogic**: <Weblogic installation location>/domains/<Domain name>/servers/<Server name>/tmp/_WL_user/<Application name>/qaelce/jsp_servlet
- **Websphere**: <Websphere installation directory>/AppServer/profiles/<Profile name>/temp/<Node name>/server1/<Application name>/<.war file name>

1.5 Starting Infrastructure Services

Once the IR has been applied successfully and the post-installation steps are completed, all the OFSAAI services must be restarted. For more information, refer to Start/Stop Infrastructure section in OFSAAI 7.3 Installation and Configuration Guide.

Note that, in 7.3.2.0.0 IR, the memory settings parameter have been moved to .profile of APP layer from reveleusstartup.sh file and you need to update X_ARGS_APP field for any customized memory settings. You need to edit the X_ARGS_APP variable in the .profile to customize Java Memory Settings for Model Upload based on the Data Model size.

Depending on the exact number of processors configured, you need to modify the value of "ParallelGCThreads" parameter in the following arguments in both “APP” and “DB” tier.

- **APP tier**
  - X_ARGS_APP - Application Server Memory Settings
  - X_ARGS_OBJMIG - Object Migration
  - X_ARGS_WSEXE - Web Services Command Line Utility
- **DB tier**
  - X_ARGS_RLEXE - Rule Execution
  - X_ARGS_RNEXE - Run Execution

The minimum permissible value of "ParallelGCThreads" parameter which resides in .profile file is “2” and it should not be more than number of processors.
1.6 Known Issues / Limitations

Post installation of 7.3.2.0.0 IR, some hierarchies may not be visible. In such a case, check the log file generated in the current folder. If you notice the following error "ORA-00001: unique constraint (REV_LOCALE_HIER_PK) violated", download and install the one-off patch Bug 16214303. This facilitates to remove the duplicate descriptions present in REV_LOCALE_HIER table.