Oracle Financial Services Analytical Applications Infrastructure

Installation Guide

Release 8.0.6.3.0

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ORACLE

OFS Analytical Applications Infrastructure Installation Guide

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Document Control

Version Number	Revision Date	Change Log
1.0	April 2019	• Created document to capture OFSAAI 8.0.6.3.0 Maintenance Level Release. • Updated for Doc 29530604.
2.0	May 2019	Added a note based on Bug 29746707.
3.0	August 2019	Updated *Installing and Configuring EMF Studio Service* and *Configuring and Starting Data Studio for R* for default port information (Doc 30144762).
3.1	June 2020	Removed *Installing and Configuring EMF Studio Service* section (Doc 31449904).
3.2	July 2020	Added information to download, install, and apply patch 31606017 (Doc 31647393).
3.3	December 2021	Updated the How to Apply This Maintenance Level Release? Section for 33663417 Mandatory Patch instructions (Doc 33668822).

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1 OFS AAI Release 8.0.6.3.0

OFS AAI 8.0.6.3.0 Maintenance Level (ML) includes all the bug fixes and minor enhancements done since the previous GA (General Availability) release, that is, 8.0.6.0.0.

This ML release of OFS AAI can be installed on a setup with any OFSAA 8.0.6.0.0 Application Pack.

1.1 Conventions and Acronyms

Conventions	Description
Screen actions are indicated in Bold	
IR	Interim Release
ML	Maintenance Level Release
OFSAAI	Oracle Financial Services Analytical Applications Infrastructure
OHC	Oracle Help Center
AIX	Advanced Interactive eXecutive
RHEL	Red Hat Enterprise Linux
OEL	Oracle Enterprise Linux
OS	Operating System
EAR / WAR	Enterprise Archive / Web Archive
J2EE	Java 2 Enterprise Edition
OTN	Oracle Technology Network
JCE	Java Cryptography Extension
Atomic Schema	Database schema where the application data model is uploaded.
Configuration Schema	Database schema which contains setup related configurations and metadata.

1.2 Pre Installation Requirements

- You should have OFS AAI version **8.0.6.0.0** as the minimum patch set level.
- Ensure unlimited cryptographic policy for Java is enabled during the installation of OFS AAI 8.0.6.0.0. For more information, see the *Enabling Unlimited Cryptographic Policy* section from the OFS Analytical Applications Infrastructure Administration Guide.

1.3 How to Apply This Maintenance Level Release?

Refer to the following instructions to install this patch set.

1. Login to https://support.oracle.com/ and search for **29230516** under the Patches & Updates tab.
2. Download the OFSAA 8.0.6.0.0 AAI ML RELEASE #3 archive file and copy it to your OFSAA server in **Binary** mode.

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

3. Search and download the mandatory patch **31606017** from https://support.oracle.com/.
4. Log in to My Oracle Support, search for the **33663417** Mandatory Patch in the **Patches & Updates** Tab and download it.

> **ATTENTION** On the 10th of December 2021, Oracle released Security Alert CVE-2021-44228 in response to the disclosure of a new vulnerability affecting Apache Log4J before version 2.15. The application of the **33663417** Mandatory Patch fixes the issue.
>
> For details, see the My Oracle Support Doc ID 2827801.1.
>
> Ensure that you reapply the **33663417** Mandatory Patch whenever you install or upgrade the application, or apply an incremental patch.

5. Stop all the OFSAAI services. For more information, see the Starting/ Stopping Infrastructure Services section in the Oracle Financial Services Analytical Applications Infrastructure Installation & Configuration Guide 8.0.2.0.0.
6. Login to the OFSAA server as a non-root user and navigate to the `$FIC_HOME` folder.
7. Assign WRITE permission to the files/ folders such as commonscripts, EXEWebService, ficapp, ficweb, and ficdb by executing the command:

   ```
   chmod -R 775 *
   ```

8. If you have Unzip utility, skip to the next step or download the Unzip utility (OS specific) and copy it in Bin**a**ry mode to the directory that is included in your PATH variable, typically `$HOME` path or directory in which you have copied the 8.0.6.3.0 ML.
   - Uncompress the unzip installer file using the command:

     uncompress unzip_<os>.Z

> **NOTE** If you notice an error message "**uncompress: not found [No such file or directory]**" when the package is not installed, contact your UNIX administrator.

- Give EXECUTE permission to the utility using the command:

  `chmod 751 unzip_<os>`

  For example, `chmod 751 unzip_aix`

9. Extract the contents of the 8.0.6.3.0 ML archive file using either of the following commands:

   `unzip_<os> -a <name of the file to be unzipped>`

   Or

   `unzip –a <name of the file to be unzipped>`

> **NOTE** The above "`-a`" option is mandatory to unzip the archive file. For example: For AIX operating system `unzip_aix -a p29230516_80630_AIX64-5L.zip`

10. Give EXECUTE permission to the ML patch installer script. Navigate to the path where the folder OFS_AAI exists and execute the command:

    `chmod 755 OFSAAIUpdate.sh`

11. Execute the following command:

    `./OFSAAIUpdate.sh`

12. Verify if the ML is applied successfully by checking the log file generated in `OFS_AAI/logs` folder. You can ignore ORA-00001 and ORA-02292 in the log file. In case of any other errors, contact Oracle Support Services.

> **NOTE** In case of upgrade on Hive Infodom, you may encounter an exception "PL/SQL: ORA-00942: table or view does not exist". You can ignore this error.

13. Post successful installation of the ML, perform the following steps:

    - Clear the application cache. Navigate to the following path depending on the configured web application server and delete the files.
      - 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>`
- WebSphere:
  `<WebSphere installation directory>/AppServer/profiles/<Profile name>/temp/<Node name>/server1/<Application name>/<.war file name>`

14. Delete the existing EAR/WAR file available in the folder `$FIC_HOME/ficweb`.
15. Install OFSAAIRunner package. This is an optional step and applicable only if you have installed ORE. For more information, see Installing OFSAAIRunner package with enhancements for OFS AAI 8.0.6.3.0.
16. Apply the mandatory patch **31606017**. See the Readme available with the patch for further instructions on how to install and apply the patch.
17. Apply the **33663417** Mandatory Patch.

    See the Readme that is packaged with the patch for further instructions on how to install and apply it.
18. Restart all the OFSAAI services. For more information, see the Starting/ Stop Infrastructure Services section in the Oracle Financial Services Analytical Applications Infrastructure Installation & Configuration Guide 8.0.2.0.0.
19. Generate the application EAR/WAR file and redeploy the application onto your configured web application server. For more information on generating and deploying the EAR/ WAR file, see the Post Installation Configurations section in the Oracle Financial Services Analytical Applications Infrastructure Installation & Configuration Guide 8.0.2.0.0.

2 Additional Configurations

2.1 Installing OFSAAI Runner Package with Enhancements for OFS AAI 8.0.6.3.0

NOTE

1. This is a post installation configuration and is applicable if you have installed Oracle R Enterprise (ORE) for Oracle Financial Services Enterprise Modeling (OFS EMF) Application.
2. This configuration is not applicable for Tomcat.

If OFS Enterprise Modeling is licensed and enabled in your OFSAA instance, uninstall OFSAAIRunner package and reinstall the latest available OFSAAIRunner package. For details on uninstallation and reinstallation, see Configuring Oracle R distribution and Oracle R Enterprise (ORE) in the Oracle Financial Services Analytical Applications Infrastructure Installation & Configuration Guide 8.0.2.0.0.